THE

Semitic

LANGUAGES

EDITED BY **ROBERT HETZRON**

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EDITED BY
Robert Hetzron

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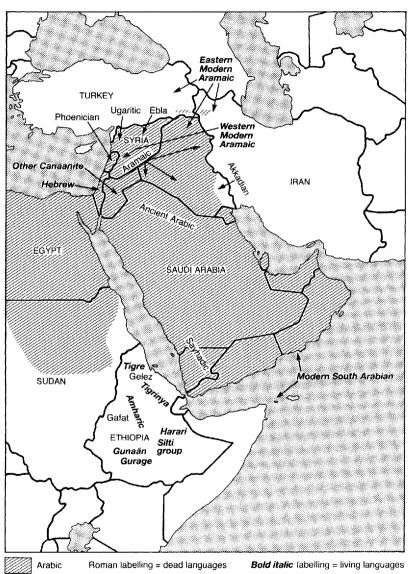
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Map 1   The Semitic languages

For Arabic dialects see Chapter 14
For Modern South Arabian see Chapter 17

Preface

This is the first general survey of Semitic that mentions all the languages of this family, doing justice to the modern tongues such as the Arabic and Aramaic dialects and various languages of Ethiopia. Even the least-known Semitic language, Zway, is occasionally referred to in the chapter on the Silte group, inserted by me on the basis of data from Professor W. Leslau.

For different reasons, every language could not be represented by a separate chapter. The chapters on the Phoenician and Eastern Canaanite, Sayhadic, Arabic and Modern Aramaic dialects, the varieties of Modern South Arabian, the Silte group, Amharic and Argobba all contain comparative material on closely related linguistic entities, and the one on Outer South Ethiopic presents descriptive samples of an even more diverse group. The chapter on Ancient Hebrew deals with two distinct periods of the language: Biblical (itself subject to subdivision) and Mishnaic.

We have tried to make the presentation as uniform as possible. Exactly the same pattern and terminology is, however, not realistic. First of all, several languages have a long linguistic tradition, including style of presentation and nomenclature. It seemed advisable to honor this. Secondly, in some cases the terms used reflect the author's theoretical approach and it would have been improper to impose another system on them.

In one instance modern linguistic terminology was imposed: "case" is used loosely, as a functional element. Thus, not only declensions are subsumed but also prefixes, prepositions and postpositions.

The most delicate case is the "tense vs. aspect" controversy: with which one of these categories do Semitic languages operate their verbal system, "tenses" like (a) "past," (b) "present–future" or "aspects" like (a) "completed" ~ "perfective" and (b) "noncompleted ~ imperfect(ive)" (where the two (a)'s and (b)'s are respectively equivalent)? I myself seem to be in a minority in being fully convinced that the relevant category is "tense." The majority of writers preferred aspectual terms. Yet this should not be taken at face value. For example, Professor Segert uses aspectual labels but calls the actual forms "tenses." Professor Steiner diplo-

matically speaks of "tense and/or aspect" without separating them. Dr. Gutt uses the term "aspect" for the basic stem forms of the verb (including a non-aspectual one), and the complete forms based on these are called "tenses." Professors Wagner and Hudson use plain "tense." What matters is that in each chapter the use of the author's preferred term is always clearly illustrated.

The wisest statement I know about this controversy was uttered by Professor Chaim Rabin in a lecture: "Semitic has either aspects that express tenses or tenses that express aspects." (In the printed version of this paper, Rabin n.d., this statement is not reproduced, only the term "tense" is used.)

Another terminological problem, though always clear in the context used, is how to name basic forms of the verb and the derived forms such as "passive." In the Arabic tradition, Roman numeral + "form" is used. Hebrew imported its own term *binyan* (lit. 'building') into English; others use "stem" or "theme" (the latter is a Gallicism). The term "stem" is used by others for the internally vocalized form of the verb to which affixes are added, in agreement with the general linguists' usage. "Derivational class" is quite adequate and is used by Professor Wagner.

Ethiopian Semitic has a special form for the verb of a nonfinal clause "coordinated" (at least this is the equivalent of a coordination) with a final clause. This has been traditionally called "gerund" (a Gallicism). More recently, "converb" was introduced.

As far as transcription is concerned, I have respected the authors' preferences as much as possible. For the so-called "emphatic" consonants, underdot is the generally accepted mark. For clarity $\dot{p}$ receives an overdot instead. These consonants are velarized in Arabic and Modern Aramaic. In Modern South Arabian and Ethiopian they are glottalized/ejective (produced by closing the glottis, compressing the air in the mouth, then opening the dental, velar, etc., closure suddenly followed by the release of the glottal closure): glottalization is deemed to be the original articulation. The only disagreement concerns the alternate use of k or q for the same sound.

Underline marks lenition in ancient Central Semitic, replaced by overline for $\bar{p}$ and $\bar{g}$. The traditional letter $ḫ$ is used for dead languages, phonetically identical to x in the modern ones.

Semitic a has been raised in Ethio-Semitic, yielding what IPA would transcribe as [ɐ], but is rendered as a by Marcel Cohen, and as $ä$ by most specialists, though, in my opinion quite incorrectly, $ə$ is also used. This letter $ə$ is the standard symbol for the shwa, the least significant and most easily reducible vowel. For those who use this character for [ɐ], the shwa is i. In this volume, independently of one another, Professor Wagner and Dr. Gutt chose a for the same [ɐ] with the reasoning that their respective languages distinguish between long and short vowels, so that the correlation [aː/ɐ] is more clearly rendered by using *aa/a* respectively.

This brings us to the mark of length. In general linguistics a ":" symbol indicates length, but a number of linguists prefer reduplication, some the macron (for vowels only). Thus, there is equivalence in the following cases: m: = *mm*, a: = *aa* = $\bar{a}$.

Finally, let me thank all the contributors and consultants for their cooperation, and Ms. Denise Rea of Routledge for the energy she invested in this work.

Robert Hetzron
August 1996

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Publisher's Note

We are sorry to announce that the editor, Robert Hetzron, died in August 1997 just weeks prior to the publication of this volume – a sad loss to the field of linguistics.

List of Abbreviations

A	Ammonite	CPWG	Central Peripheral
abl.	ablative		Western Gurage
abs.	absolute	CWG	Central Western
acc.	accusative		Gurage
adj.	adjective	Cy.	Cyprus dialect
Akk.	Akkadian	Dam.	Damascene
Alg.	Algerian	dat.	dative
Anat.	Anatolia/Anatolian	def.	definite
Ar.	Arabic	dem.	demonstrative
Ara.	Arabian	det.	determiner
art.	article	detr.	detrimental
aux.	auxiliary	dim.	diminutive
B	Baṯhari	DN	divine name
Ba.	Bax'a	du.	dual
Bag.	Baghdad/Baghdadi	E	Edomite
bed.	bedouin	Eg.	Egypt/Egyptian
ben.	benefactive	ENA	Eastern Neo-Aramaic
By.	Byblian	ESA	Epigraphic South
CA	Classical Arabic		Arabian
Ca.	Cairene	G	Ǧubb'adin
c/e	central or eastern	Gal.	Galilee/Galilean
Chad.	Chadian	gen.	genitive
Chr.	Christian	GG	Gunnän-Gurage
coll.	collective	GN	geographical name
conj.	conjunction	Gt	Grundstamm
conjunct.	conjunctive	Ḥ	Ḥarsūsi
const.	construct	Heb.	Hebrew
cop.	copula	Hadr.	Hadramitic
cps	complement person	Hb.	Hobyōt
	suffix	IA	Imperial Aramaic

imp.	imperative	NENA	Northeastern
impf.	imperfect		Neo-Aramaic
ind.	indicative	Neo-Ar.	Neo-Aramaic
indef.	indefinite	NG	Northern Gurage
inf.	infinitive	Nig.	Nigeria/Nigerian
instr.	instrumental	NL	natural language
interr.	interrogative	nom.	nominative
intr.	intransitive	NP	noun phrase
Ir.	Iraq/Iraqi	NWS	Northwest Semitic
J	Jewish	O	object
Jib.	Jibbāli	OA	Old Aramaic
Jer.	Jerusalem	obl.	oblique
J (*ML*)	Jibbali from *Mehri*	OBy.	Old Byblian
	Lexicon	OSA	Old South Arabian
JPA	Jewish Palestinian	OSE	Outer South Ethiopic
	Aramaic	Pal.	Palestianian
juss.	jussive	Pal. Talm.	Palestinian Talmud
Ku.	Kuwaiti	part.	participle
LBH	Late Biblical Hebrew	pass.	passive
Leb.	Lebanon/Lebanese	PCA	Proto-Colloquial
lit.	literally		Arabic
loc.	locative	pf.	perfect
LPu.	Late Punic	Ph.	Phoenician
M	Mehri	PN	personal name
M.Ar.	Middle Aramaic	pol.	polite
Mag.	Maghreb/Maghrebine	pr.	present
Ma.	Maʿlūla	pre.	prefix
Mal.	Maltese	prep.	preposition
Maur.	Mauritania/	pro.	pronoun
	Mauritanian	PS	Proto-Semitic
Mes.	Mesopotamian	Pu.	Punic
MJb	Jādib	PWG	Peripheral Western
mmf	Muḥayfif		Gurage
Mo.	Moabite	Qat.	Qatabanian
Mor.	Morocco/Moroccan	quant.	quantifier
MH	Middle Hebrew	rel.	relative
Min.	Minean	S	subject
MSA	Modern Standard	So.	Soqoṭri
	Arabic	Sab.	Sabean
MSAL	Modern South Arabian	Sayh.	Sayhadic
	Languages	SBH	Standard Biblical
N	noun		Hebrew
NB	Neo-Babylonian	SE	South Ethiopic
neg.	negative	SJms	Soqoṭri from

	Johnstone's manuscript notes	Tna	Tigrinya
SLA	Standard Literary Aramaic	trans.	transitive
		Tun.	Tunisia/Tunisian
S (ML)	Soqoṭri in *Mehri Lexicon*	Ug.	Ugaritic
		V	verb
subj.	subject	v.i.	verb intransitive
subjunct.	subjunctive	v.t.	verb transitive
Sud.	Sudan/Sudanese	var.	variant
suf.	suffix	WG	Western Gurage
Sum.	Sumerian	WNA	Western Neo-Aramaic
Syr.	Syria/Syrian	Yem.	Yemen/Yemenite

PART I

GENERALITIES

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1 Genetic Subgrouping of the Semitic Languages

Alice Faber

Models of Language Relatedness

The question underlying, explicitly or implicitly, many discussions of the relationships among the Semitic languages is how appropriate for discovering such relationships are methods developed by Indo-Europeanists. That is, can the traditional methods of comparative linguistics lead to insights about the relationships among the Semitic languages? Or, is it more appropriate to view the obvious resemblances among the Semitic languages not as evidence of a shared linguistic heritage, but rather as resulting from the close cultural and geographic connections among communities speaking Semitic languages?

Even raising the question of the suitability of genetic models for the Semitic language family suggests in some way that genetic models are not applicable to the Semitic languages. Indeed, Garbini (1972) has attributed the resemblances among the Semitic languages to the linguistic influence of successive waves of Amorite migrants into Mediterranean, Red Sea, and Indian Ocean littoral regions and into Mesopotamia. For Garbini, the similarities among the Semitic languages simply reflect the efficacy of Amorite linguistic imperialism. This view of Semitic linguistic history begs the question of what (if any) the relationships among the Semitic languages were, prior to the Amorite invasions. If the autochthonous Canaanite vernacular was not genetically related to Amorite, to what was it related and why does no evidence of that relationship survive? And, if it was related to Amorite, how? The import of these questions is that influence of one Semitic language on another cannot be treated in isolation from the original relationship among the languages. Similarly, the question of genetic relationships among the Semitic languages cannot be treated in isolation from their subsequent patterns of contact. In other words, genetic models of linguistic relatedness and areal models of mutual linguistic influence are complementary rather than competitive. Some similarities serve as evidence of genetic relationship, while others serve as evidence for mutual influence.

In particular cases, it may be difficult – if not impossible – to determine whether a particular similarity between two Semitic languages results from their shared an-

cestry or from subsequent contact. Nonetheless, part of the task of comparative re-
construction – of any linguistic stock – is to distinguish similarities reflecting
common ancestry from similarities reflecting influence of one language on an-
other. That this distinction may be subtle does not mean that it is invalid. A further
distinction is required between these two types of similarities, which both betoken
linguistic relationship, and other similarities, which arise either by chance or are
so "natural" that they recur in many, unrelated languages (see Hoenigswald
(1960) on the comparative method and Greenberg (1957) for further discussion
of methodology).

The establishment of a linguistic subgroup requires the identification of inno-
vations that are shared among all and only the members of that subgroup. As al-
ready noted, random convergences and highly natural changes can prove
misleading, and, hence, should be excluded. Areal features should also be ex-
cluded, since these reflect not an ancestral language state but rather post-split con-
tact. Given these considerations, it has been suggested that morphological
innovations will provide the best guide to subgrouping in a language family
(Hetzron 1976, with references). Certainly, the Semitic languages have the kind
of rich inflectional and derivational morphology that should, in principle, be valu-
able in the establishment of patterns of innovation. However, since many morpho-
logical innovations in the Semitic languages involve vowel alternations and many
of the ancient Semitic languages are preserved in scripts which provide little or no
indication of vowel quality, morphological comparisons are not always complete;
it can be difficult, therefore, to provide a specification of the changes that have oc-
curred precise enough to chart patterns of innovation. Nonetheless, the principle
underlying reliance on shared morphological innovations in establishing sub-
groupings is sound. That is, more idiosyncratic innovations are less likely to have
recurred independently. Morphological innovations are, by their nature, more
likely to be idiosyncratic, but it is their idiosyncratic nature not their morphologi-
cal nature that makes them valuable for subgrouping. While many phonological
developments, like the change of *p to /f/ in Arabic and South Semitic, are so nat-
ural as to be useless for subgrouping, it does not follow that all phonological de-
velopments are natural and could have occurred independently many times in the
history of a language family.

These considerations lead to a further distinction, between innovations that may
lead to the establishment of a subgroup and those that may be attributed to the
common stage of a subgroup that has already been established. Many phonologi-
cal innovations fall into this second class. Thus, the change of *$ā$ to o, attested in
all Canaanite languages (see p. 5), as a relatively natural change may not be suf-
ficient basis for establishing Canaanite as a subgroup of Semitic. But given the
other features defining Canaanite and the wide attestation of $o < $*$ā$, there is no
reason not to treat the development of $o < $*$ā$ as a Proto-Canaanite innovation.
Similarly, there is a sense in which loss of a form or distinction is as much an in-
novation as addition of a form or distinction. Nevertheless, subgroups are gener-
ally not posited only on the basis of a shared loss. However, as with

phonologically natural innovations, a shared loss may be attributed to a subgroup established on the basis of other, more conventional criteria.

In the remainder of this chapter, I will outline two hypotheses regarding the internal structure of the Semitic language group. The first hypothesis is traditional, based in large measure on the geographical distribution and cultural importance of the various Semitic languages. It is included simply because it is presented in most reference works on the Semitic languages as if it were established fact. In fact, there is little evidence supporting it. The second hypothesis, first proposed by Hetzron (1976), is based on principles of the sort discussed above. The morphological and phonological innovations supporting Hetzron's proposal will be presented in some detail. I will not discuss lexicostatistical approaches to the structure of the Semitic language family (e.g., Rabin 1975), since lexicostatistics is based on assumptions about rate of lexical replacement that may not be applicable to the Semitic languages. Furthermore, it is in practice subject to pragmatic difficulties involving semantic shifts and the identification of loanwords, as is clear from the discussion following Rabin (1975: 99–102).

The Traditional Subgrouping of the Semitic Languages and its Cultural and Geographical Basis

The traditional subgrouping of the Semitic languages, as presented in handbooks (e.g., Bergsträsser 1983; Brockelmann 1961; Moscati 1969; Ullendorff 1970) is shown below:

```
East Semitic: Akkadian
West Semitic
        Northwest Semitic
                Canaanite: Hebrew, Phoenician, Moabite
                Aramaic
        South Semitic
                Arabic
                Southeast Semitic
                        Modern South Arabian: Jibbali, Mehri, Harsūsi, Soqoṭri
                        Ethio-Sabean
                                OSA: Sabean, Qatabanian, Hadramauti, Minean
                                Ethiopian Semitic
```

This grouping is based on cultural and geographical principles (Moscati 1969: 4). That is, even though some of the divisions (e.g., West Semitic vs. East Semitic) are supported by patterns of innovation, the grouping itself was not formulated on an empirical basis. The group labels should be understood in terms of the geographical distribution of languages. There are two major omissions, both due to the discovery of "new" languages. The first omission is Ugaritic, whose position is left unclear (it could be either Canaanite, in parallel with Hebrew and Phoenician (Harris 1939), or a direct descendant of Northwest Semitic (Goetze 1941)).

The second omission is Eblaite, discovered in the mid-1970s. Here the question is whether the language is approximately equivalent to Proto-West Semitic (or even, Proto-Northwest Semitic or Proto-Canaanite), a variant of Akkadian (East Semitic), or a third branch of Proto-Semitic. Since these omissions are not defects of the traditional model *per se*, but rather general problems for Semitic subgrouping, they will be discussed further below.

A Model Based on Shared Innovations

Investigation of the internal structure of the Semitic language family was placed on an empirical footing by Hetzron (1972, 1973, 1975, 1976). Hetzron proposed, on the basis of shared morphological innovations, a grouping like that below; the grouping here incorporates modifications by Rodgers (1991) and Huehnergard (1992).

East Semitic
    Akkadian
    Eblaite
West Semitic
    Central Semitic
        Arabic
        Northwest Semitic
            Ugaritic
            Canaanite: Hebrew, Phoenician, Moabite, Ammonite, El-Amarna
            Aramaic
            Deir Alla
    South Semitic
        Eastern
            Soqoṭri
            Mehri, Ḥarsūsi, Jibbāli
        Western
            Old South Arabian
            Ethiopian Semitic
                North Ethiopic: Ge'ez, Tigré, Tigrinya
                Southern Ethiopic
                    Transverse SE
                        Amharic, Argobba
                        Harari, East Gurage (Silte, Wolane, Ulbarag, Inneqor, Zway)
                  Outer SE
                      n group: Gafat, Soddo, Goggot
                      tt group
                        Muher
                        West Gurage
                          Mäsqan
                        Central/Peripheral
                          Central: Ezha, Chaha, Gura
                          Peripheral: Gyeto, Ennemor, Endegen

Northwest Semitic in both models is identical and South Semitic in the second is equivalent to Southeast Semitic in the first. Thus, the primary difference between the groupings is Hetzron's suggestion that Arabic is more closely related to Canaanite and Aramaic than to Southeast Semitic; all three, Arabic, Canaanite, and Aramaic, constitute, for Hetzron, Central Semitic. Hetzron's (1972, 1975) methodology leads further to a division of Ethiopian Semitic into North Ethiopic (Geʻez, Tigre, Tigrinya) and South Ethiopic. Hetzron subdivides Central Semitic into Canaanite and Arabic on the one hand and Aramaic on the other. This grouping is not shown in the second model, since the innovative form that he bases the Arabo-Canaanite group on, the verbal Pl. f. suffix -na/-nā, is, in fact, found in early Aramaic texts and, thus, may be a retention from Central Semitic (Voigt 1987: 10ff.) or Proto-Semitic (Goldenberg 1977: 477; Huehnergard 1990: 283). The subgrouping of Central Semitic in the second model follows, instead, proposals made by Huehnergard (1990, 1992, forthcoming), and that of South Semitic follows proposals made by Rodgers (1991); the subgrouping of Ethiopian Semitic follows that of Hetzron (1972, 1975).

The Major Divisions

East Semitic

Until the discovery of the Eblaite texts, there was no reason to focus inquiry on the structure of East Semitic, since the only language assigned to that group was Akkadian, and Akkadian/East Semitic was what was left out of West Semitic. Based on onomastic material, for the most part, Eblaite was first thought to be West Semitic, perhaps even Proto-Canaanite (Pettinato 1975). However, more detailed analysis of the language of the texts revealed (1) that the language does not manifest the innovations common to West Semitic, let alone those defining Central Semitic and Canaanite, and (2) that the language shares several innovations with Akkadian. These latter innovations, noted by Huehnergard (1992), are the development of pl. m. adjectives in -ūt and the development of distinct sg. 2/3 dative suffixes -kum and -šum. These features, not found in West Semitic, justify classifying Eblaite and Akkadian together as East Semitic. Huehnergard further notes that Eblaite is not a dialect of Akkadian, since there are several innovations found in all Akkadian dialects, but not in Eblaite. Among these is the dissimilatory change of word-initial m to n in words containing another labial (von Soden 1984). This treatment of Eblaite as an East Semitic sibling of Akkadian is compatible with that of Caplice (1981), who suggests that Eblaite is neither Akkadian nor West Semitic, and that of Gelb, who suggests that the closest relative of Eblaite is Old Akkadian, without treating it as a dialect of Akkadian (1977: 25ff.; 1981: 52).

West Semitic

Suffix Conjugation as Past Tense

The primary innovation that Hetzron (1976) identifies as characterizing West Semitic is the development of a suffix conjugation *qatala* (Hebrew *lɔmaδ*, Arabic *kataba*) denoting past tense actions. Akkadian has superficially similar stative constructions using similar suffixes, but both the meaning of the forms and the structure of the verb stem differ in crucial respects from the West Semitic.

Prohibitive Marker *ʾal(a) 'Don't'

A further innovation that can be traced to the West Semitic period is the prohibitive negative marker *ʾal 'don't' (Faber 1991), probably compounded from the inherited negative *ʾayy and asseverative *la (for *la, see Huehnergard 1983). This negative particle is attested throughout West Semitic, with the exception of Arabic, as a prohibitive or as a marker of main clause negation. The latter function appears to be a South Semitic innovation (see p. 11). While *ʾal is superficially similar to Akkadian *ul*, the older variant *ula* suggests that the Akkadian particle, is to be associated with the ancestor of Arabic *wala* instead (Faber 1991).

Central Semitic

Pharyngealization as a Secondary Articulation

One of the major innovations defining the Central Semitic group is the development of a series of pharyngealized consonants. All of the Semitic languages have a third, emphatic series of consonants /ts̩ ṭ θ ṭɬ k̩/, generally reconstructed as glottalic pressure consonants (Dolgopolsky 1977; Faber 1980, 1985, 1990). In Ethiopian Semitic and in Modern South Arabian, they are glottalic pressure stops /sʔ tʔ kʔ/, while in Arabic and Neo-Aramaic, they are pharyngealized /sˤ tˤ dˤ θˤ/ and uvular /q/. The Semitic languages known only from written records also had this third consonant series, but it is not always clear which realization – ejective or pharyngealized – they had. The dissimilatory change of one emphatic consonant to its non-emphatic counterpart in Akkadian roots containing two emphatics (Geers 1945) suggests that Akkadian emphatics were ejectives (Knudson 1961, Faber 1980, 1990), and the assimilation of /t/ to /ṭ/ adjacent to /ṣ/ in Hebrew *hitqattel* verbs suggests that Hebrew had pharyngealized emphatics (Faber 1980, 1990). Thus, it is only in Central Semitic that pharyngealized emphatics are observed.

Non-Geminate Prefix Conjugation for Non-Past

Central Semitic is characterized, according to Hetzron (1976), by several innovations in the verbal system. The most striking of these is the development of a new prefix conjugation for representation of nonpast events in main clauses. This *yaqtulu* form is superficially similar to the inherited jussive *yaqtul*, and replaced the inherited *yaqattal* nonpast, a form that is preserved in Ethiopian Semitic,

South Arabian, and Akkadian (Goldenberg 1977: 476–477; cf. Blau 1978: 27ff., Voigt 1987, Cohen 1984: 73–75, Zaborski 1991: 367).

Within-Paradigm Generalization of Vowels in Prefix Conjugation

No doubt related to the innovation of a new prefix conjugation is the leveling of prefix vowels in all prefix conjugations, new and old. In Akkadian, the four prefixes that occur in active, non-derived prefix conjugation verbs are *ʾa, ta, ni*, and *yi*, and Hetzron (1973) plausibly suggests that this *a–i* alternation in Akkadian reflects the Proto-Semitic state of affairs (cf. Blau 1978: 31–32). In Central Semitic, however, all of the prefixes for a particular verb stem have the same vowel, *a* or *i*, depending on such factors as verb voice and, for Hebrew, the phonological shape of the verb stem. Hetzron's proposal is that the *a–i* alternation depending on prefix was reanalyzed as an *a–i* alternation depending on verb stem in Central Semitic. The vowel *a* was later generalized in Arabic, while the *a–i* alternation in prefixes (*yilmaδ* vs. *yɔqum* [< yaqumu]) was preserved in Hebrew, and, apparently, in Ugaritic (Segert 1984: 60ff.); the Aramaic situation is less clear, due to the reduction of unstressed vowels in open syllables (*yilmaδ* vs. *yɔqūm*). While it is clear that in the Central Semitic languages all prefixes for a particular verb stem have the same vowel, it is less clear that Arabic ever had a stage in which any active non-derived verbs had *i* prefixes.

Generalization of -t- in Suffix Conjugation Verbs

As noted above, the innovation of the *qatala* suffix conjugation past tense form characterized West Semitic. The general shape of the suffixes for this conjugation was -(C)v(C). The initial consonant for the 1st person singular suffix was *k* and for all 2nd person suffixes it was *t*, as in the Akkadian stative as well. However, in Central Semitic, *t* was generalized throughout the paradigm. Thus, Arabic has *katabtu* 'sg. 1' and *katabta* 'sg. 2m.'.

Development of Compound Negative Marker *bal

The survey of Semitic negative markers in Faber (1991) reveals a set of negative adverbs, conjunctions, and prepositions found only in Central Semitic. These forms, like Hebrew *bli* 'without', Ugaritic/Phoenician *bl* 'not', and Arabic *bal* 'on the contrary', are of uncertain etymology, although they appear to involve reinforcement of an inherited Afroasiatic negative marker *b with either the Proto-Semitic negative *la or the asseverative *la that was its source (Faber 1991).

Northwest Semitic

Huehnergard (1990, 1992, forthcoming) suggests that the major split in Central Semitic was between Arabic and Northwest Semitic, noting that this view entails no change in the composition of Northwest Semitic, only a change in which languages are seen as its closest neighbors. The two major innovations characterizing Northwest Semitic are the change of word-initial *w to /y/ (with the exception of the letter name *waw* and the conjunction *w-*), and the double plural marking of

qVtl nouns with both *a* between the final two consonants and a suffixed plural marker (Harris 1939: 8–9; Huehnergard forthcoming). While doubly marked plural forms like Hebrew *dəγɔlim* 'flags' (sg. *dɛγɛl* < **digl*) and, possibly, Ugaritic *rašm* 'heads' (sg. *riš*) are superficially similar to Arabic broken plurals, a structure that is arguably a retention from Proto-(West) Semitic (see below), the obligatory double plural marking of these nouns represents an innovative combination of inherited morphological material. Also peculiar to Northwest Semitic is the assimilation of *l* to *q* in forms of the verb **lqḥ* 'take' in which the two would be adjacent, e.g., Hebrew *yiqqaḥ* < **yilqaḥ*) 'he will take' (Harris 1939: 9). Finally, Huehnergard (in press) notes the metathesis of *t* in the reflexive verb prefix *(h)it-* with a root-initial sibilant in such verbs as Hebrew *hištammer* (< **hit-šammer*) as a possible Northwest Semitic innovation.

Canaanite

Huehnergard identifies three innovations shared in Canaanite (Hebrew, Phoenician, Moabite, Ammonite, and the substratum for El-Amarna Akkadian). The first of these is the change of *a* to *i* in the first syllable of the derived D and C stems *limmid* and *hilmid*. The Canaanite languages also show the change of the sg. 1 verb agreement suffix from *-tu* to *-ti* (Harris 1939: 10). Finally, in Canaanite, the pl. 1 suffix *-nu* was generalized to genitive and accusative pronominal forms from the independent pronoun *ʾanu/ʾanaḥnu* 'we' and suffix conjugation verbs. The change of **ā* to *o*, noted throughout Canaanite, may also represent a Proto-Canaanite innovation, although Harris (1939: 44–45) suggests rather post-split diffusion.

Aramaic

As Huehnergard notes, most of the innovations generally considered Aramaic are not observed in the oldest Aramaic inscriptional material. It is therefore difficult to find innovations that can be said to characterize all and only Aramaic languages. One candidate, suggested by Huehnergard, is generalization of the pl. 1 suffix *-na* to the independent pronoun and to the suffix conjugation from the genitive and accusative pronominal forms. That is, given two inherited pl. 1 suffixes, *-nu* and *-na*, Canaanite generalized one and Aramaic the other. Aramaic is also characterized according to Huehnergard (forthcoming) by loss of the passive N stem (Hebrew *nilmaδ*) and the development of a new causative reflexive *hittagmar* replacing earlier *ʾistagmar* (Arabic *istaktaba*).

Ugaritic

In 1941 Albrecht Goetze published a paper asking the question "Is Ugaritic a Canaanite dialect?" Despite Goetze's impressive list of Canaanite features that are absent in Ugaritic, this question is today most often given an affirmative answer (e.g., "Zum Kanaanäischen rechnen die meisten auch das Ugaritische." (von Soden 1984: 16)). The alternative, of course, is that it was a Northwest Semitic sibling of Canaanite, partaking in the Northwest Semitic innovations, but not the

Canaanite ones. Now, Ugaritic did participate in the Central Semitic and North-west Semitic innovations outlined above. But with the Canaanite innovations, the situation is murkier, since all concern vowel shifts in specific morphemes and the Ugaritic consonantal orthography will only in case of a vowel abutting ʾ indicate vowel quality. Thus, it is not clear whether the sg. 1 verb suffix in Ugaritic was -tu or -ti (Goetze 1941: 132); and it is not clear whether *any* 1st person plural pro-nominal form ended in -u or -a, although Goetze (1941: 132n.) suggests on the basis of onomastic evidence that the 1st person plural genitive marker was -na, not -nu as in Canaanite. It is clear, however, from cuneiform forms like a-na-ku that Ugaritic did not participate in the *ā to o change, and, according to Huehnergard (1990: 285n.), it is clear from cuneiform forms like ša-li-ma 'has paid' that Ugaritic did not have i in the first syllable of D stem verbs either. Thus, Ugaritic was probably not Canaanite, but rather a Northwest Semitic sibling of Canaanite.

South Semitic

Generalization of -k- in Suffix Conjugation Verbs
As noted earlier, the West Semitic suffix conjugation had some suffixes beginning with k and some with t. While the t was generalized in Central Semitic, in South Semitic it was the k that was generalized throughout the suffix conjugation para-digm. So Ethiopian languages have suffixes based on -ku 'sg. 1' and -ka 'sg. 2m.'.

Generalization of *(ʾ)al as Verbal Negative
One of the innovations listed above as characterizing West Semitic was the devel-opment of prohibitive *ʾal. This marker was generally retained in Central Semitic as a prohibitive, but in South Semitic it was generalized as an indicative marker of negation. It is attested in Epigraphic South Arabian texts meaning 'not' and as a pre-verbal negative particle in Modern South Arabian and in Ethiopian Semitic; in Ethiopian Semitic, it cooccurs with a post-verbal -m in negative main clauses. Thus, the change of *ʾal from a prohibitive to a marker of sentential negation is characteristic of South Semitic.

Eastern (Modern South Arabian)
The primary innovation separating Modern South Arabian from the rest of South Semitic (Ethiopian Semitic and Old South Arabian) is the prefixed definite article of the form C(a) where C is one of {ʾ ḥ h} (Rodgers 1991).

Western
The Western South Semitic group, consisting of Ethiopian Semitic and Old South Arabian, is characterized, according to Rodgers (1991), by the development of fi-nite uses for non-finite verb forms; that is infinitives and/or gerundives are used in serial constructions in which the first verb is finite but the others are not. Hetzron (1975: 113) notes the widespread distribution of these 'converbal' con-structions in Ethiopian Semitic, but not the Old South Arabian parallels.

Ethiopian Semitic

Although virtually all discussions of Semitic subgrouping assume a single Ethiopian Semitic branch which later split into North Ethiopic and South Ethiopic, there is virtually no linguistic evidence for such a Common Ethiopian stage. Yet as Hetzron (1972: 17, 122) notes, neither is there any evidence that the diverse forms attested in North and South Ethiopic do not reflect a stage of shared descent from South Semitic that is independent of Old and Modern South Arabian. Hetzron (1972: 18; 1975: 113) suggests that the pan-Ethiopian compounds of the form 'X+ say' (e.g., Amharic *əmbi alä* 'refuse') represent a Proto-Ethiopian calque of a Cushitic structure. Also probably Proto-Ethiopian is the existential verb **hlw* (Amharic *allä*), which is morphologically perfect but semantically present tense, and which cooccurs with temporal prefixes (Amharic *s-*) that otherwise only occur with imperfects (Hetzron 1972: 18; 1975: 113).

The internal structure of Ethiopian Semitic presented here follows Hetzron (1972, 1975). Ethiopian Semitic is divided into two branches, North Ethiopic and South Ethiopic. Hetzron provides no evidence supporting grouping Ge'ez, Tigre, and Tigrinya together as North Ethiopic. However, all three of these languages have replaced the inherited South Semitic verbal negative *ʾal* with *ʾi/ʾay*, attested elsewhere in Semitic but with more restricted uses (e.g. Hebrew *ʾi*-X 'un-X'). Hetzron treats the North Ethiopic *ʾi* as a phonological variant of *ʾal*, but without mentioning the extra-Ethiopian parallels for it (Faber 1991). The unity of South Ethiopic is more secure, resting on several analogical changes in verb stems. For type A verbs, the linked changes of perfect *säbärä*/imperfect *yəsäbbər* (preserved in Ge'ez) to *säbbärä/yəsäbər* can be attributed to a common SE period. Likewise the analogical extension of the stem vowel *e* in the imperfect of type B *yəfeṭṭəm* to the perfect *feṭṭama* (cf. Ge'ez *fäṣṣämä*) is common SE.

The Position of Arabic

The primary difference between the two proposals for Semitic subgrouping outlined in this chapter is the affiliation of Arabic. Is it a sibling of South(east) Semitic, or is it a Central Semitic sibling of Northwest Semitic? The issues regarding the classification of Arabic have been explicitly and clearly laid out by Diem (1980). Arabic shares features with both Northwest and Southeast Semitic, and if one set of features is to be treated as shared innovations, the other must be treated as the result of chance factors or of structural influence of another language on Arabic. Discussion of the affiliation of Arabic generally concedes the similarities between Arabic and Northwest Semitic, and focuses on the appropriate analysis of features that occur in Arabic and Southeast Semitic. These features include: (1) the unconditioned change of **p* to /f/; (2) the existence of verb stems with a long first vowel (*kātaba, takātaba*); (3) broken plurals, that is, plurals formed by prefixation and/or internal change rather than by suffixation (e.g., Tigré *qabər/ʾaqbər(t)* 'tomb'). Advocates of grouping Arabic with Southeast Semitic (Blau 1978; Diem 1980) treat these features, especially the second and third, as

shared innovations; the features that Arabic and Northwest Semitic share are then attributed to convergence or diffusion. Advocates of grouping Arabic with Northwest Semitic (Hetzron 1973, 1976; Goldenberg 1977; Huehnergard 1990, 1992, forthcoming), on the other hand, treat the five similarities between Arabic and Northwest Semitic (see pp. 8–9) as common inheritance; the similarities between Arabic and Southeast Semitic are treated then as retentions of constructions that have been replaced in Akkadian and Northwest Semitic.

Advocates of the former point of view stress the agreement between Geʿez and Arabic in plurals of specific nouns; however, when Tigre, Tigrinya, and the South Arabian languages, both Old and Modern, are included in the picture, much less agreement is evident. For example, forty-nine Sabean nouns in Beeston, *et al.* (1982) form the plural with prefixed ʾ, presumably reflecting a ʾ*vCCvC* template. Seven of them have apparent Jibbāli cognates (Johnstone 1981); only one of these (*kɔ̄r* 'tomb' < √ḳbr) has a sound plural (*ḳabrín*), but the other six, in contrast with their Sabean cognates, pluralize by internal modification alone, with no prefixation. Advocates of the latter point of view rely instead on relic broken plural forms in Hebrew and Syriac (e.g., Heb. *rɛxɛv* 'riders', sg. *roxev*) that suggest an earlier language stage in which internal pluralization strategies were more widespread than they are in attested stages of Northwest Semitic languages. Similarly, Hebrew *domem* verbs, generally treated as a variant of *limmeδ* restricted to verbs with identical second and third consonants, are formally equivalent to Arabic *kātaba*. Advocates of a Central Semitic Arabic suppose that the complementarity of *domem* and *limmeδ* is a later development, while advocates of a South Semitic Arabic treat the formal similarity of *domem* and *kātaba* as coincidental (see further Fleisch 1944: 18).

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2 Scripts of Semitic Languages

Peter T. Daniels

Most Semitic languages are known to us only because they were written down. Without writing, we would have only Arabic, South Arabian, Aramaic, and Ethiopic dialects; were it not for ancient literacy, we would have no Bible, no Qur'an, no hint even of Mesopotamian civilization.

Scripts have customarily been classified according to the schema set forth by Isaac Taylor (1883, vol. 1: 6), distinguishing logographic, syllabic, and alphabetic writing. But this is not adequate; it has resulted in much fruitless wrangling in past decades over what to call, for instance, the Phoenician script. For the scripts of the Semitic languages, five categories are needed: logography, syllabary, abjad, alphabet, and abugida. A sixth, featural script, appears when Arabic script is adapted to non-Semitic languages.

Writing is a system of more or less permanent marks representing an utterance in such a way that it can be recovered more or less exactly without the intervention of the utterer. **Logographic** writing uses one character to represent one morpheme. Such are Chinese script and Sumerian script (where each root or affix is represented by one character). In a **syllabary,** each character represents a syllable, ordinarily a simple open syllable with one consonant followed by one vowel (CV). The characters for syllables containing the same consonant or the same vowel generally bear no resemblance among themselves. An **abjad** (also known as a consonantary), in its pristine form, is a script wherein each character denotes a consonant and wherein vowels are not represented at all. Such a script has arisen once, to write some early Semitic tongue, and its organizing principle has undergone a considerable variety of developments across the times and places of its use. (The English word "abjad" is borrowed from the Arabic term for the letters of the script when taken in their ancestral order, as when they are used with their numerical values; it is a simple vocalization of the first four letters in that order.) An **alphabet,** ideally, includes a character for each segmental phoneme of the language it represents. Only one has ever been independently invented, the Greek alphabet, and from this have developed all the alphabets of Europe, which in turn have become the dominant script type of the modern world. (The English word "alpha-

bet" combines the names of the first two letters of the Greek ancestor.) An **abugida** is a script that uses characters for CV syllables wherein the several characters for some consonant plus the language's array of vowels are modifications of the character for that consonant followed by the unmarked vowel (phonemically /a/). (The English word "abugida" is borrowed from the Amharic term for the letters of the script when taken in the order known from the Geʻez transliterations of the Hebrew letter names found in the superscriptions of the sections of Psalm 119, as used in liturgy; it takes the first four consonants and the first four vowels in their traditional order of presentation.) In a **featural** script, features (characteristics) of the written characters represent distinctive features within the phonology of the language.

History of Scripts of Semitic Languages

This chapter is called "Scripts of Semitic Languages" rather than "Semitic Scripts" or "Semitic Writing" because Semitic scripts underlie virtually every script in use outside East Asia today. Similarly at the other end of the story, at the beginning of history, the script of the early Semitic languages was not Semitic writing. Those first languages – Akkadian, Eblaite, Amorite, and doubtless others that have not been excavated – used a script borrowed from a language whose speakers seem to have been present in Mesopotamia before speakers of Semitic. That language is Sumerian; that script is logosyllabic cuneiform.

Logosyllabary

Sumerian is a largely monosyllabic, agglutinative language. This kind of structure seems to have been a necessary ingredient for the independent invention of writing: it is characteristic of the languages hosting the two other certain cases of independent invention, Archaic Chinese and Mayan, as well. When a civilization begins to write things down, what it writes down generally seems to be things that would not be spoken, and the resulting records are, in the Near East, economic documents: inventories of livestock and goods, lists of laborers, soon lists of everything within the writers' ken.

   Some time perhaps in the second half of the fourth millennium BCE, accountants began pressing into lumps of clay marks – originally pictorial, but soon conventionalized; they are called **signs** – that represented livestock and commodities and quantities. Owners' names also needed to be written: because the objects depicted had names composed of single syllables, the marks inherently represented those syllables as well; so the syllables composing the names could be recorded with the marks that also designated the objects. (The syllables represented could be CV, VC, or CVC in shape.) The names were preceded by a mark indicating that the group of marks represented a name. At a later stage in recording Sumerian prose, some verbs and abstractions could be indicated by signs for related objects ("go" with "leg," "light" with "sun"); then additional words and affixes that could not be represented by pictures could also be written using only the sounds associated

with signs. As help in interpretation, a series of **determinatives,** like the name sign mentioned earlier, could mark words falling into categories like "city," "bird," "wooden object," and so on.

The earliest Akkadian was written very like Sumerian: at first grammatical elements were not included, and only word order can suggest whether a particular passage was intended for Sumerian or Akkadian; but soon the full panoply of resources was in use: phonetic, logographic, and determinative signs. The range of consonants in Semitic, however, is richer than that in Sumerian, and certain phonetic signs did double or multiple duty in a principled way: the consonant in any VC sign represented the voiceless, voiced, and emphatic members of the set at one point of articulation (e.g. *t/d/ṭ*); initial consonants, too, only gradually received fully specified representations. Signs with semivowels represented them with any of the vowels. Moreover, when logograms took on Akkadian as well as Sumerian readings, the phonetic values of the signs could reflect either the Sumerian or the Akkadian reading (e.g. ⌐𝍰𝍰 *sag, riš*; cf. Sum. SAG, Akk. *rēšu* 'head'). All told, around six hundred signs were used across the history of the language, but no more than about two hundred were of common occurrence at any particular time and place.

In their pictorial stage, the signs were incised by drawing fine lines in the clay with a pointed object. They were conventionalized by replacing the drawn lines with impressed **wedges,** made by touching the corner of a triangular prism, probably a reed, to the clay, at various orientations, so the script is called **cuneiform** (cf. Latin *cuneus* 'wedge').

Signs became gradually simpler, requiring fewer strokes of the stylus to complete, and there are characteristic treatments of recurring patterns of strokes, but the system retained its integrity for well over 2,500 years, into the first century CE (the latest known dated text is from the year 75). One can tell at a glance whether a particular inscription is Babylonian or Assyrian, early or late, and once one is accustomed to the handwriting of a certain period, the identification of the signs is not difficult.

Abjad

Origin
In the absence of any evidence whatsoever regarding the origin of the abjad, speculation has centered on the morphological structure of Semitic: according to the traditional view, Semitic words are composed of interdigitated consonantal "roots" and vocalic "patterns." Recognition has been growing, though, that Semitic word formation is not thus unique among the languages of the world, but can be efficiently described according to familiar patterns of bases, ablauts, and affixes; note that Semitic word structure did not result in a restructuring of Sumerian cuneiform into vowellessness when it came to be used for Akkadian.

The invention of the abjad resulted from a rather subtle observation. It has repeatedly been shown that it is not "segments" of the speech stream or phonemes

of a language that are accessible to the consciousness of a speaker; unless people can read an alphabetic script, they cannot isolate stretches of speech smaller than a syllable. (Hence the primacy of syllabic writing.) Phonetically similar syllables were apparently not at first recognized to share any similarity, so that e.g. cuneiform signs ⌐⊏||| *ta*, ⊣⌐⊦⌐ *ti*, and ⊢⌐⊏| *tu* show no graphic similarity. There does, however, exist a Mesopotamian signlist that brings together phonetically similar syllables: it groups *ta*, *ti*, and *tu*; it also groups ⊏⊏| *at*, ⊨⊐ *it*, and ⌐| *ut* – but it does *not* group these two triplets together. (Significantly, a copy of this list from Ugarit, where an abjad was in use, does give evidence that the sets were recognized as related.) Thus a segmental consciousness was emerging.

Further stimulus toward recognition of segments may have come from certain orthographic practices used for Hurrian, an unaffiliated language written with Mesopotamian cuneiform. A CV syllable (regardless of vowel length) was often written CV_i-V_i, with the vowel inherent in the CV sign repeated by an independent vowel sign – so that the CV sign in effect denoted only its inherent consonant. A second possibly relevant practice is found at the Hittite capital, Boğazköy. The sign ⌐⌐⊢ PI represents *wa*, *we*, *wi*, and *wu* in cuneiform. When Hittite scribes wrote foreign languages (including Hurrian), they would add a subscript ⊦⊦ *a*, ⊨⊦⊦ *e*, ⊏⊏ *i*, or ⊏|||⊏ *u* to the ⌐⌐⊢. This would seem to represent another sort of segmental consciousness.

Development
Often placed at the head of the stream of Semitic texts are the few "Proto-Sinaitic" inscriptions, found on votive objects from a mining settlement in the Sinai dating to the mid or even early second millennium BCE, but there is little evidence to support the language identification. More secure is the place of the handful of "Proto-Canaanite" characters at or near the wellspring: they are dated as far back as the early seventeenth century BCE, but the oldest that can be securely interpreted are the al-Khadr arrowheads, probably from the twelfth to the eleventh centuries. Not long afterward, probably, the earliest surviving recognizably Phoenician inscriptions were written. Another descendant of the ancestor of Phoenician is the South Semitic branch, in turn ancestral to the Epigraphic South Arabian and the Old North Arabic scripts. Materials have not been found that might clarify the early history of the southern branch, but some examples of cursive South Arabian have only recently been discovered.

Ugaritic
Earlier than the earliest Phoenician, though, is the first sizable abjad-written corpus: the tablets from Ugarit and environs composed in a variety of the Semitic abjad written on clay, beginning probably before 1300 BCE. Here, perhaps because of the need to write the Hurrian language, in which syllables could begin with vowels as well as consonants, the letter which elsewhere represented ʾ was used only before *a*; additional letters represented ʾ before *i* and ʾ before *u* (they are transliterated *ȧ*, *ı̇*, and *u̇* as a reminder that the letters do *not* represent vowels or

syllables). There are two varieties: a longer one, written left to right, used in the city of Ugarit itself; and a shorter one, containing the twenty-two letters still found in Hebrew, usually written right to left. The few texts using this form are nearly all from outside Ugarit.

Phoenician

Sufficient materials survive from the first millennium BCE (more plentifully from the later periods, of course) to follow the development of the abjad from its early Phoenician form to the considerable diversity of scripts that were in use as long as the diversity of Semitic languages persisted. While most communities allowed the abjad to change gradually over the generations, the tradition represented initially by the Hebrews and to this day by the Samaritans was very conservative, and has preserved a set of letter forms that is close to the ancestral shapes of 3,000 years ago. When the Dead Sea Scrolls were written, this script was still recognized as (ancient and thus?) holy. A few of the Scrolls are entirely in a revival of it called Paleo-Hebrew script, and in others, the Tetragrammaton appears in it, embedded in text using the Square Hebrew which is current to this day.

Aramaic

Square Hebrew is a form of the Aramaic branch of the abjad, apparently adopted by the Jewish community during the Babylonian Exile. Soon after the epigraphic record begins, about the turn of the first millennium BCE, a trend to two different styles of writing appears. The script of Phoenician proper is more angular, while that associated primarily with Aramaic languages becomes more curvaceous. (Canaanite languages, such as Ammonite, could also be written with Aramaic script, well before its adoption for Hebrew.) A possible explanation for this trend is that – as the (Imperial) Aramaic language became the lingua franca of successive Near Eastern empires – Aramaic script was widely used throughout the Fertile Crescent, so a tendency to cursiveness was tolerated, then encouraged, as writing became increasingly part of everyday life and speed in producing documents became desirable. In contrast, (allowing for accidents of preservation) Phoenician seems to have been written in fewer different circumstances, affording the script less opportunity to "evolve" through the centuries. The more cursive aspect of its later offshoot, Punic, suggests that Punic in turn came to be written more often in more contexts. The cursivity of the script of the Aramaic-writing community led at first to distinctive forms for some letters at the ends of words (the trend is already noticeable in the Aramaic papyri from Elephantine, fifth century BCE), and – by the turn of the era – in many areas to the writing of groups of letters, up to entire words, without lifting the pen.

Several corpora written with cursive versions of the Aramaic abjad have survived from the early first millennium CE (Klugkist 1982), but insufficient materials for working out the interrelations among them are available. They include: Nabatean, the ancestor of Arabic script, used (by an Arab tribe to write a form of Aramaic) around the rock-hewn city of Petra in modern Jordan and subsequently

throughout the Sinai (the latter graffiti are known as "Sinaitic"); Palmyrene, from the majestic city-state of Palmyra; Hatran, used in the northern part of the Aramaophone region; Edessan, which developed into Syriac script; Mandaic, still in use by practitioners of a Gnostic religion; and the little-known Elymaic, from Elam in modern Iran, which seems to have been the main starting point for the scripts of the Iranian and Altaic languages that eventually spread all across Inner Asia. Some form of Imperial Aramaic script also underlay the Kharoshthi script used for Indic languages in northwest India in the fifth century BCE, and recent studies of the origin of Brahmi, the main ancestral script of India, attested only since the fourth century BCE, suggest that it was at least influenced by Kharoshthi (rather than based directly on an Aramaic script, as has generally been held).

Contemporary Reflections of Aramaic
The abjads that are still in use are the Mandaic, the Arabic, the Syriac, and the Hebrew. Each of the four has survived because it was the vehicle of sacred scripture, and for "Peoples of the Book," the physical instantiation of scripture is itself sacred: it is more or less sacrilegious to transfer the sacred text to some other written medium (even to translate it is more or less inappropriate).

Only a handful of pre-Islamic Arabic inscriptions are known, and it is clear the script was in crisis: different letters were nearly indistinguishable, and the larger consonantal inventory of Arabic was not well served by the abjad that was adequate for Canaanite and Aramaic. The scribal solution was to merge the letter shapes into just over a dozen forms, and to distinguish them with obligatory patterns of dots; the dots reflect letter history (distinguishing those whose basic shapes had converged) and, for the newly accommodated consonants, phonetic similarity. As Islam was brought to preliterate populations, the Arabic script was adapted on the same principles to the writing of the native languages. The ensuing cultural diversity, coupled with a prohibition of depictions of the human form, has led to a glorious variety of calligraphic styles and elaboration employed in Muslim art and architecture throughout the world.

Syriac Christianity, divided both between Roman and Persian imperial control and by Christological schism, developed two distinctive versions of the script from the earlier Estrangelo (either "round" or "gospel writing"): Jacobite or Serto ("[simple] stroke") in the west, which is usually found in European printing; and Nestorian in the east, which is now called East Syriac because it is the form generally used by speakers of Modern Aramaic, whichever church they adhere to. "Assyrian" orthography dates from the work of American missionaries in Kurdistan in the 1820s and is deliberately archaizing and not language specific. Some Jewish Modern Aramaic documents are known from a few centuries earlier, and they are written phonetically using Hebrew characters.

With the Jewish Diaspora, regional varieties of Hebrew script emerged everywhere. Square Hebrew remained the script of the sacred books, and is the standard form used in modern Israel. Of the many varieties, the broad designations "Sephardic" and "Ashkenazi" remain relevant: the script known (ahistorically) as

"Rashi," used for rabbinic commentaries, represents the former, and Modern Hebrew cursive handwriting perpetuates the latter. Hebrew script could be used for local languages wherever there were Jews, and one criterion for identifying a "Jewish language" such as Yiddish is that such orthography exists.

Alphabet

The aforementioned transfer of abjadic writing from Semitic-speakers to Greek-speakers was probably inevitable, but the emergence of alphabetic writing was an accident. It took no great Greek genius to deliberately devise letters for vowels; they were a virtually automatic result of the fact that the Greek language uses fewer consonantal phonemes than Northwest Semitic. Syllables beginning with laryngeal consonants and with semivowels in Semitic were heard by Greeks as beginning with vowels, so naturally, when, say, a Phoenician (or Aramaic?) scribe was explaining the script to an inquisitive Greek would-be scribe, perhaps by saying the names of the letters, the Greek would hear [ʾalp] as /alp/, [ħet] as /et/, [joːd] as /iot/, and so on. This would seem to be an ordinary sort of market-place transaction, and hardly needs to be explained as a yearning to notate Greek oral epics, still less as a manifestation of Aryan genius.

Vowel Letters

It is, moreover, not correct to claim that the abjad could notate only consonants. In even the oldest Aramaic inscription yet known, there are what are called *matres lectionis* ('mothers of reading'). These are certain letters – some occurrences of ʾ, *h*, *w*, *y*, and occasionally ʿ – that indicate not their consonantal value, but the presence of a phonetically similar vowel. Their origin is historical: consonants continued to be written after they had been lost from the spoken languages in some positions, and came to be interpreted as standing for the vowels that remained. Earliest, apparently, were final vowels no longer followed by ʾ or *h*; word-internally, diphthongs *ay* and *aw* contracted to *ê* and *ô* respectively; and *y* or *w* came to represent *ī* and *ū* in addition. The process was carried through most consistently in Aramaic; in its orthographic descendant Arabic, every *ā* is represented by ʾ as well. Mandaic is so thorough in its use of vowel letters as to have almost devised an alphabet.

Vowel Points

The Semitic abjad first became a full alphabet at the hands of Syriac grammarians. Perhaps because they were familiar with Greek, they recognized that it was possible and useful to explicitly notate all the vowels. Perhaps the large number of Greek and Iranian loanwords in Syriac – where vowel indication was perhaps less dispensable – provided the impetus toward devising such notation. But the Greek model, which would involve inserting vowel letters within the spellings of words, was not followed, for two reasons: the text of scripture was sacred as it had been transmitted through the generations, and could not be disfigured by insertions (this argument holds for Hebrew and Arabic as well); and if a new way of writing

Syriac came into fashion, all older manuscripts would become unreadable by the next generation of students. So ways were found to optionally notate vowels without infringing on the consonantal text. The resulting vocalization schemes, involving marks added above or below the line of letters, are known as **vowel pointing** (or **punctuation**), and not, contrary to several popular accounts of Semitic writing, *matres lectionis*.

Syriac

The earliest manuscripts in Syriac Estrangelo already employ several diacritic points. A pair of dots over a word indicates a plural. Where distinct words share a consonantal spelling, a dot above a letter indicates a "fuller" syllable (typically with *a*), and a dot under indicates a syllable with a lesser vowel or vowellessness: ܥܒܕܐ *'bādā* 'a work', ܥܒܕܐ *'abdā* 'a servant'. Since such dots could distinguish perfect forms from participial forms (ܩܛܠ *qtal* ~ ܩܛܠ *qātel* respectively), they came to mark such grammatical distinctions even when they contradicted the phonetic indications of the dots (ܣܡ *sām* 'he placed [pf.]').

   Gradually, combinations of dots came into use in the East Syriac region to indicate shades of vowel color, with the full system distinguishing seven vowels by the ninth century CE. In the west, where Greek influence was strong, vowels could be specified with small Greek letters placed above or below the consonant which was followed by the vowel. Either system of vowel notation remained optional. Only in Modern Aramaic texts are vowel points – always the dot system – obligatory.

Hebrew

For Hebrew, a sequence of manuscripts illustrating the development of vowel pointing does not exist. As Hebrew ceased to be a spoken language, scholars – Masoretes – in several parts of the Jewish world devised schemes for notating vowels (and also the liturgical chants, which related in ways not well understood to the syntactic structure of the text). The Babylonian and Palestinian pointings eventually gave way to the Tiberian, which is the style found in today's Bible editions and is occasionally used for clarification of Modern Hebrew texts, such as poetry and elementary schoolbooks.

Arabic

Arabic, with its full complement of *matres lectionis* and its limited set of three vowels (short and long), quickly settled on a simple set of vowel diacritics. The full Arabic writing system, however, is morphophonemically quite complicated, allegedly because the consonantal text of the Qur'an was established by speakers of one dialect, and the vowel and other diacritics were added according to a different dialect.

Abugida

A scattering of Sabean inscriptions is found in Eritrea. Early in the history of the

Aksumite kingdom, shortly after 300 CE, missionaries succeeded in converting the king and the kingdom to Christianity, and simultaneously, vowel notation appears in the inscriptions beginning with the middle of the reign of King Ezana. The Ethiopic script was thus the first Semitic script to notate vowels consistently, and it does so in a way unique within the Semitic sphere: it uses the technique followed in India, of taking a basic consonantal shape to represent the consonant followed by *a* and modifiying that shape to represent the consonant followed by the other vowels (or no vowel). This technique may have been introduced by Christian missionaries from India; it seems unlikely that it was introduced by Greek or Coptic missionaries, whose alphabets provided separate letters for the vowels. The earliest surviving Ge'ez manuscripts date only from the fourteenth century, but the script changed little between its development and then, or between then and now.

Script Direction
Fairly early in the development of cuneiform, a 90 degree rotation in the direction of writing became established, so that the ancestral pictograms face upward and the lines of text are horizontal, reading left to right.

Right-to-left writing has been the rule throughout the history of the abjad. The principal exception is the Ugaritic tablets (in the long version of the script), where left-to-right practice seems to have been taken over from Mesopotamian cuneiform along with the medium and technique. Epigraphic South Arabian texts – which could be inscribed on very long walls – tend to be written **boustrophedon** ('as the ox plows'), with alternate lines beginning at opposite ends of the surface. This facilitates reading such a long-lined inscription. The first scribe to lay down the principles of writing with the abjad was probably left-handed: right-to-left writing with the right hand is more conducive to smearing of freshly deposited ink than left-to-right; since most of humankind is right-handed, said inventor must have been possessed of great prestige, so that he or she was imitated forever after. The persistence of right-to-left writing shows the force of tradition; Syriac scribes adopted the expedient of turning their pages 90 degrees counterclockwise to write downward in columns from left to right (this accounts for the unusual orientation of the Western vowel signs taken from Greek letters) while still reading horizontally right to left.

It seems that only when a script undergoes a catastrophic transformation can the tradition be breached. It happened with the transfer of the abjad to the Greeks, where the resulting alphabet made the transition via boustrophedony; and it happened in the development of the Ethiopic abugida: the ancestral Sabean inscriptions from Aksum are written from right to left, but both the unvocalized and then the vocalized Ethiopic inscriptions are written from left to right from the first.

Word and Clause Division
Word boundaries are treated in four different ways in the scripts of Semitic languages: they are ignored, they are marked by divider characters, they coincide with horizontal space in the line of writing, or they are indicated by distinctive

shapes of letters at the ends of words.

No word-breaks appear on cuneiform tablets, but a gap may be left before the last sign of a line to achieve an even right margin; words are not split between lines. Such Proto-Canaanite texts as are interpretable generally comprise only single words, usually owners' names. In Ugaritic, a single vertical wedge (looking different from the wedges used in the letters) usually stands between words. The Aḥiram sarcophagus inscription uses short vertical strokes, other Phoenician and some Old Aramaic texts give no indication of word division. Most Archaic Hebrew inscriptions use a dot between words, and eventually it became normal to leave a bit of blank space between words. The slight pause thus engendered seems to induce the scribe's fingers to prolong a word-final stroke a bit, resulting in the special final forms of letters. In Arabic, where certain letters are not connected to the next even within a word, the tendency to extend a word-final stroke, but not a word-internal unconnected stroke, means that words can be distinguished even without leaving extra space between them. Epigraphic South Arabian texts generally follow each word with a short vertical stroke, and its Ethiopic descendant until very recently always used a vertical pair of dots (with two such pairs as "sentence" punctuation). The other scripts used for modern languages – Hebrew, Arabic, Syriac – have adopted the European punctuation marks.

Description of Scripts of Semitic Languages

Logosyllabary
The Akkadian cuneiform script comprises something more than 600 signs, nearly all of which have one or several phonetic readings, most of which have a logographic value, and a number of which are also used as determinatives. The number 600, though, can be misleading; fewer than 200 signs were in common use at any one stage of the language.

Signs are identified in modern study in two ways: by their reading, and by their designation. The reading of a sign (in a particular context) is given in lower case italic. The various signs with the same pronunciation are differentiated in **transliterations** via numerical subscripts, arranged in putative order of frequency of appearance; except that $_1$ is not marked, and $_2$ and $_3$ are usually replaced by acute and grave accents respectively. So some of the signs read [ʃu] are transliterated *šu*, *šú*, *šù*, *šu$_4$*, *šu$_5$*. The designation of a sign is usually its most common reading; it is a transliteration into capital letters – in careful typography, small capitals – of one of its pronunciations, and this is how logographic signs are represented. Determinatives are transliterated like logograms, or with a conventional series of superscripts. Phonetic complements (sometimes used to clarify a rare logogram or an unusual phonetic reading of a sign) are transliterated with italic superscripts. When passages of Akkadian are **transcribed,** the identities of the signs are ignored and vowel length is marked with a macron for a historically long vowel or a circumflex for a long vowel resulting from contraction or consonant loss.

Table 2.1   Phonetic arrangement of Neo-Assyrian cuneiform syllabary[†]

Ca	Ce	Ci	Cu		aC	eC	iC	uC
				—				
				m				
				b				
				p				
				w				
				y				
				d				
				ṭ				
				t				
				z				
				ṣ				
				s				
				š				
				n				
				l				
				r				
				g				
				q				
				k				
				ḫ				
				ʾ				

† The table gives the most common monoconsonantal signs. The intersections of vowel columns and consonant rows are sometimes subdivided to include more than one homophonous sign. The "*q* row" thus reads *qa qá qeli qélí qu qú aq eliq uq* (where *qá* is GA, *qélí* is KI, and *qú* is KU) (after Daniels 1983: 253).

Uniquely among the world's syllabaries, which otherwise have characters only for Consonant + Vowel (CV) syllables, (Sumero-)Akkadian signs may have CV readings, VC readings, and CVC readings. The CV signs distinguish the full complement of consonants of the Akkadian language accompanied by the four vowels, but the VC signs collapse the triplets of voiced, voiceless, and emphatic consonants (Table 2.1, p. 26). Vocalic nuclei of syllables can be written with CV_i, with CV_i-$V_i C$, or with $CV_i C$; long vowels can be written with CV_i-V_i(-$V_i C$). Long consonants can be written with -$C_i v$ or with -VC_i-$C_i V$; a writing -VC_i-V can only represent a sequence C_i'.

Abjads

Consonants

The oldest West Semitic language with a sizable literature is Ugaritic. The Ugaritic abjad comprises twenty-seven consonant letters (including a sibilant that seems to be used only in non-Semitic words) and three characters that represent ' followed (and possibly preceded) by the three vowels. The other Northwest Semitic languages are written with just the twenty-two letters that sufficed for the consonants of Phoenician (Table 2.2, p. 28) – even though in some languages some letters were used for more than one phoneme, as with the Hebrew distinction later marked with ש *ś* vs. ש *š*, or with the Aramaic interdentals θ and δ which early on were written with ש *š* and ז *z* and only later merged with and were written with ת *t* and ד *d*.

Many of the letters in the scripts developed from the ligatured Aramaic cursives scripts take on different shapes at the beginnings, middles, and ends of words; some of the letters do not connect to those that follow within a word.

Classical Arabic introduces some complications beyond the expanded roster of letters (Table 2.3, p. 29). When not word initial, the letter ' is always the *mater* for *ā*, and an additional sign ء (hamza) represents [']. It is placed on one of the *matres* or alone within the line of writing, depending on the preceding and following vowels. Pausal morphophonemics are captured in the consonantal script by combining the final/independent forms ه ـه of *h* with the dots of ت *t*: ة ـة, used to end feminine nouns. Consonant length can be marked – even in otherwise unpointed texts – with ّ .

In both Hebrew and Syriac, the stop consonants can optionally be marked for plosive versus fricative pronunciation. Hebrew uses a dot within the letter for the stop and (very rarely) a dash above it for the fricative; Syriac uses a small dot respectively above or below the letter. Other marks in the text belong in the realm of specialists.

Table 2.2 Scripts using the Northwest Semitic order[†]

Value[§]	Ugaritic	Samaritan	Hebrew	Rashi	Mandaic	Estrangelo	Serto	Nestorian	Num. Val.
ʾ (à)									1
b									2
g									3
(ḫ)									
d									4
h {-ī}									5
w									6
z									7
ḥ {h}									8
ṭ									9
y									10
k									20
(š)									
l									30
m									40
(δ)									
n									50
ẓ									
s									60
ʿ									70
p									80
ṣ									90
q									100
r									200
ś									
š (θ)									300
(γ)									
t									400
(ì)									
(ù)									
(š)									
{dī}									

† Where two forms are shown, that on the right occurs at the end of a word.

§ (Ugaritic values); {Mandaic values}.

Table 2.3   Script using modified Northwest Semitic order (Arabic)

Value	Alone	Final	Medial	Initial	Numerical Value
a	ا	ـا			1
b	ب	ـب	ـبـ	بـ	2
t	ت	ـت	ـتـ	تـ	400
θ	ث	ـث	ـثـ	ثـ	500
ǰ	ج	ـج	ـجـ	جـ	3
ḥ	ح	ـح	ـحـ	حـ	8
ḫ = x	خ	ـخ	ـخـ	خـ	600
d	د	ـد			4
δ	ذ	ـذ			700
r	ر	ـر			200
z	ز	ـز			7
s	س	ـس	ـسـ	سـ	60
š	ش	ـش	ـشـ	شـ	300
ṣ	ص	ـص	ـصـ	صـ	90
ḍ	ض	ـض	ـضـ	ضـ	800
ṭ	ط	ـط	ـطـ	طـ	9
ẓ	ظ	ـظ	ـظـ	ظـ	900
ʿ	ع	ـع	ـعـ	عـ	70
γ	غ	ـغ	ـغـ	غـ	1000
f	ف	ـف	ـفـ	فـ	80
q	ق	ـق	ـقـ	قـ	100
k	ك	ـك	ـكـ	كـ	20
l	ل	ـل	ـلـ	لـ	30
m	م	ـم	ـمـ	مـ	40
n	ن	ـن	ـنـ	نـ	50
h	ه	ـه	ـهـ	هـ	5
w	و	ـو			6
y	ي	ـي	ـيـ	يـ	10
lā	لا	ـلا			

Vowels

Vowels are inherent in the logosyllabary, the abugida, and the alphabets; most of the abjads have devised ways of denoting vowels. In each case, the vowel point accompanies the letter for the consonant which it follows (Table 2.4, p. 31).

The Classical Arabic scheme is straightforward, with three marks for the three vowels; when they appear with the three possible *matres* (', *w*, *y*), they reinforce their designations of the long vowels. In the consonantal spelling of some common words, the letter ' does not appear for *ā*; in carefully pointed texts, a small ' marks such *ā*'s. There are additionally indications for final nunation, eliding initial ['], and the sequence '*ā*.

For both Hebrew and Syriac, the conventional transliterations suggest that it is vowel length that is encoded with the fairly large number of vowel points, but it is clear that within each system, it is vowel *quality* that is distinguished, with *quantity* to be deduced from the phonological context and the morphological structure of the words.

Accents

Elaborately pointed Syriac documents include "accents" that can provide syntactic, pragmatic, and liturgical information. They were not extensively used, and different grammarians codify their use differently. They do not involve an additional group of marks, but are composed of the same sorts of dots that also serve in several other functions.

In Hebrew, by contrast, every Hebrew Bible text that bears the Masoretic pointing includes on every (phonological) word an **accent** or **cantillation mark.** These accents simultaneously mark the (syntactic) immediate constituents of the text – the largest such constitutent corresponds to the verse of the English Bible – and presumably the musical patterns to be employed during liturgical chant. The musical significance of the marks, however, has not been transmitted to the present. A system of marks different from that which prevails in the rest of the Bible is used in the three "poetical" books, Psalms, Proverbs, and Job.

Letter Order

An alphabetical order organizes the elements of a set of signs (an abjad, alphabet, or abugida) in a specific sequence for mnemonic purposes. Only in fairly modern times has alphabetization become a common way of organizing lists of information (in medieval Europe, only the first letter or two or three were taken into account in compiling such lists).

Two different orders, both with variations, are known for the letters of the scripts used for Semitic; both seem to be completely arbitrary, despite numerous attempts at uncovering a logical organizing principle, whether it be phonetic similarity, graphic similarity, or relationship of the meaning of the names. The parallels of known script inventions show that alphabetical order is simply the order in which the characters were devised.

Table 2.4 Vocalization systems of the abjads†

Value	East Syriac	West Syriac	Hebrew	Arabic
i	ḥḇāṣā	ḥḇāṣā	ḥíreq	kasra (–in)
e	rḇāṣā karyā	rḇāṣā	ṣērē	
ɛ	rḇāṣā arrīḵā	rḇāṣā	səḡōl	
a	ptāḥā	ptāḥā	pátaḥ	fatha (–an)
ɔ	zqāp̄ā (ā)	zqāp̄ā	qā́meṣ	alif madda (ʾā)
o	ṣāṣā rwīḥā	zqāp̄ā	ḥōlem	
u	ṣāṣā allīṣā	ṣāṣā	qibbūṣ	ḍamma (–un)
Ø			šəwā	sukūn
ə			šəwā	
ĕ			ḥāṭēp̄ səḡōl	
ă			ḥāṭēp̄ pátaḥ	
ŏ			ḥāṭēp̄ qā́meṣ	

† Each symbol is shown alone and following *b*.

Northwest Semitic Order
The order with the earliest attestation is found at Ugarit. Several abecedaries have been recovered, and the order prevailing in them is:

á b g ḫ d h w z ḥ ṭ y k š l m δ n ẓ s ʿ p ṣ q r θ γ t ì ù ś

The three letters peculiar to Ugaritic are found at the end of the basic sequence (presumably added on to an earlier version, as has been the practice throughout history: compare upsilon through omega, Greek additions to the Semitic base, and U through Z, Roman additions to the Greek base). The twenty-two-letter Phoenician–Hebrew–Aramaic abjad uses the same order (attested earliest in a number of acrostic poems in the Bible, wherein successive verses begin with successive letters of the alphabet, e.g. Psalm 145), with the five superfluous letters ḫ ś δ ẓ γ omitted. (The Canaanite š from whatever source is spelled with the letter used for *θ > /š/):

ʾ b g d h w z ḥ ṭ y k l m n s ʿ p ṣ q r š t

A shakily written ostracon from ʿIzbet Ṣarṭah dating to the twelfth or early eleventh century BCE includes an approximation of the standard abecedary, but from left to right:

ʾ b g d h w ḥ z ṭ y k l n s p ʿ ṣ q q š t

(Part of a sign is written between *l* and *n*; the two *q*'s are not the same, and *r* would have been quite similar to *q* about the time of writing.)

   The suggestion that the twenty-two-letter signary is the original, with additional characters devised for Ugaritic, is most unlikely because, again, there is no pattern in either the shape or the "insertion" points of the five letters. Yet unexplained is the variant in some exemplars – including some of the biblical acrostics – which switch the order of ʿ and *p*.

   The order of the Greek alphabet was taken over with the signary from the Phoenician (or Aramaic) model; the order of the Roman alphabet was taken over from the Greek via Etruscan (and so on through the history of European alphabets). In each case, local conditions brought additions at the end and alterations within the sequence.

Arabic order   The standard order of the letters in Classical Arabic is derived from the inherited Semitic pattern: the letters whose shapes have merged, to be distinguished only by diacritical dots, are listed together:

ʾ b t θ j ḥ ḫ (= x) d δ r z s š ṣ ḍ ṭ ẓ ʿ γ f q k l m n h w y

There is some regional variation regarding the last few letters; the ligature for *lā* can be added at the end.

Numerical order   The twenty-two letters of the Northwest Semitic signaries can be used as numbers (digits), in order with ʾ = 1 and *ṭ* = 9; the second decade of letters gives the tens, *y* = 10 through *ṣ* = 90; the last four represent 100 through 400. Numbers are built up by juxtaposing these elements, largest first (at the right). Any word can be "counted" – by summing or otherwise manipulating the values of its letters – and the resulting numbers enter into **gematria,** or mystical speculations.

The letters retain these numerical values in Arabic, despite the rearrangement; the letters taken in numerical order comprise the *abjad.* The six additional letters, *θ x δ ḍ ẓ γ,* appear at the end and represent 500 through 1,000 respectively.

Southwest Semitic Order
The Ethiopic abugida is learned in an order puzzlingly alien to that of the other Semitic signaries:

h l ḥ m š r s q b t ḫ n ʾ k w ʿ z y d g ṭ ṗ ṣ ḍ f p

In liturgical contexts, the Northwest Semitic order is used instead, apparently learned from the headings in Psalm 119. The order is called the *abugida;* the vowels in this name are taken from the first four orders of the traditional syllabary grid.

In recent years, evidence has been discovered of the conventional order of the Epigraphic South Arabian script (Table 2.5, p. 34): first in a sequence of paving stones, each marked with a different letter, then in some long-known but hitherto uninterpretable graffiti. The order is as follows:

h l ḥ m q w s² r b t s¹ k n ḫ ṣ s³ f ʾ ʿ ḍ g d γ ṭ z δ y θ ẓ

An abecedary excavated at Ras Shamra (Ugarit) in 1988 (Bordreuil and Pardee 1995) can be interpreted as giving the cuneiform abjad in the following order, in substantial agreement with one from Beth Shemesh that dates to about 1200 BCE:

h l ḥ m q w θ r b t š k n ḫ ṣ s p ʾ ʿ ẓ g d γ ṭ z δ y

The similarities and differences of the "southern" order with the Ethiopic are striking, and unexplained.

Letter Names
Contrary to received opinion, there is no evidence that the names of the letters of the Semitic signaries go back to the creation of the scripts. The earliest attestation is the headings over the twenty-two sections of the long acrostic Psalm 119 as transcribed into Greek in the Septuagint translation of the Hebrew Bible, from about the second century BCE. They thus cannot be used for deciphering the Proto-

Table 2.5   Scripts using South Semitic order

Value[†]	Ugaritic	South Arabian	(cf. Ethiopic)
h			
l			
ḥ			
m			
q			
w			
s^2 (θ)			
r			
b			
t			
s^1 (š)			
k			
n			
ḫ			
ṣ			
s^3 (s)			
f (p)			
ʾ			
ʿ			
ḍ (ẓ)			
g			
d			
γ			
ṭ			
z			
δ			
y			
θ			
ẓ			

† (Ugaritic value)

Table 2.6   Letter names

Hebrew	Greek	Syriac	Arabic	Ethiopic
ʾālep̄	alpha	ʾālap̄	ʾalif	älf
bēṯ	bēta	bēṯ	bāʾ	bet
gīmel	gamma	gāmal	jīm	gäml
dāleṯ	delta	dālaṯ/ḏ	dāl	dänt
hē	e psilon	hē	hāʾ	hoi
wāw	u psilon	waw	wāw	wäwe
záyin	zēta	zay(n)	zāy	zäi
ḥēṯ	ēta	ḥēṯ	ḥāʾ	ḥaut
ṭēṯ	thēta	ṭēṯ	ṭāʾ	ṭäit
yōḏ	iota	yō/ūḏ	yāʾ	yämän
kāp̄	kappa	kāp̄	kāf	kaf
lāmeḏ	la(m)bda	lāmaḏ	lām	läwə
mēm	mu	mīm	mīm	mai
nūn	nu	nūn	nūn	nähas
sāmek̠	sigma	semkaṯ	sīn	sat
ʿáyin	o micron	ʿē	ʿayn	ʿäin
pē	pi	pē	fāʾ	äf
ṣāḏē		ṣāḏē	ṣād	ṣädäi
qōp̄	(qoppa)	qōp̄	qāf	qaf
rēš	rhō	rēš	rāʾ	rəʾəs
śīn/šīn	(san)	šīn	šīn	šäut
tāw	tau	taw	tāʾ	täwə
			θāʾ	
			ḫāʾ	ḫärm
			ḏāl	
			ḍād	ḍäppa
			ẓāʾ	
			ɣayn	
				p̣äit
				psa

Sinaitic inscriptions or as evidence of the alleged acrophonic origin of the values or conversely of the shapes of the Semitic signary. In particular, the divergences of the Ethiopic letter names from those in Hebrew and Syriac cannot be shown to pre-date the (European) Renaissance; these names seem to have been devised by or for Ethiopian clerics at the suggestion of European scholars on the basis of the Hebrew lexicon. (Thus the name of ✝ n, *nähas*, cannot be explained from Ethiopic, but represents a Hebrew word for 'snake'. And this is the only basis for supposing that a picture of a snake in the Proto-Sinaitic inscriptions represents /n/.)

The same names, with slight variations, are used in the Hebrew and Aramaic traditions. Most of the Ethiopic names agree, though less closely. Most of the Arabic letters are named simply for their sounds, but some preserve an echo of the Northwest Semitic originals (Table 2.6 above).

The final -*a* of the meaningless, Semitic-derived Greek letter names has been taken as evidence of an Aramaic rather than a Phoenician source of the alphabet (reflecting the Aramaic "emphatic state" marker), but the suffix can be explained equally well as an intrusion to make the final cluster pronounceable in Greek.

Alphabets

Mandaic

Mandaic orthography has usually been regarded as alphabetic, the only Semitic script that fully expresses the vowels without the addition of a separate, optional system of vocalization. It employs the familiar twenty-two letters, plus a digraph for the relative particle *di*. It has extended the use of *matres lectionis* nearly as far as possible, but does not quite explicitly and exhaustively record all vowels. The language has lost the glottal stop and the pharyngeals, so the letters ◌ *ʾ and ◌ *ʿ are available for other functions ([h] is spelled with ◌ *ḫ, and ◌ *ḥ is used exclusively for the third person singular suffix). All [a]'s are represented by ◌ *a*, all [i]'s by ◌ *i* (final [i(:)] is ◌), and all [u]'s by ◌ *u*. But [o] is also written with ◌ *u*, and the use of ◌ and the representation of [e] are complicated. ◌ appears at the start of any word that begins with a vowel other than [a]: alone for [e] (but initial [e] seems only to be a prothetic vowel before the *t*-prefix in the passive verbs or before a monoconsonantal word), or before ◌ or ◌ for initial [i] or [u] respectively. Within a word, [e], like [i], is spelled with ◌ – except that when two adjacent ◌'s would result, they are replaced by ◌; and ◌ is preferred to ◌ after the consonants that have a point below the line (◌ *k*, ◌ *n*, ◌ *p*, ◌ *ṣ*; these enter into ligatures when they precede letters with a vertical right edge, e.g. ◌ *kl*, ◌ *nm*); and ◌ can be used in place of ◌ when it represents word-final [i:] (and not [ja]).

Roman

Two Semitic languages have regularly used as a script an expanded Roman alphabet, Maltese and Modern Aramaic.

Maltese

Since Malta, a small group of islands in the Mediterranean Sea between Italy and Tunisia, falls within the Italian culture area and is a Christian land, it is not surprising that the Roman alphabet came to be used for its Arabic language, beginning in at least the eighteenth century (Table 2.7, p. 37). (Before the expulsion of the Jews from Malta in 1492, Maltese was occasionally written in Hebrew characters.)

Modern Aramaic

Assyrian of the Soviet Union   Language policy in the Soviet Union required that all recognized literary languages be provided with an alphabetic orthography – first Roman, then Cyrillic. The Modern Aramaic ("Assyrian") language of the Caucasus region (adjacent to parts of Iran and Turkey where Aramaic-speakers also lived) underwent the first stage of literacization, but not the second. A Roman-based alphabet was in use for a few years in the mid 1930s; it is now known that some two hundred books in this orthography are housed in the Lenin Library in Moscow, but scientific knowledge is practically confined to a handful of literary works made available to Johannes Friedrich in 1942 and described by him in

Table 2.7   Maltese

Letter		Semitists' equivalent
A	a	a
B	b	b
Ċ	ċ	č
D	d	d
E	e	e
F	f	f
Ġ	ġ	ǰ
G	g	g
H	h	†
Ħ	ħ	ḥ
I	i	i
J	j	y
K	k	k
L	l	l
M	m	m
N	n	n
Għ	għ	§
O	o	o
P	p	p
Q	q	ʾ
R	r	r
S	s	s
T	t	t
U	u	u
V	v	v
W	w	w
X	x	š
Ż	ż	z
Z	z	ts

† Silent except finally = ḥ and in the digraphs għh and ħh = ḥ.

§ Silent, representing CA ʿ; replaced by ʾ finally and after a.

Table 2.8   Soviet Assyrian

Letter		Semitists' equivalent
A	a	a
B	в	b
C	c	č
Ç	ç	ǰ
D	d	d
E	e	e
Ə	ə	ä
F	f	f
G	g	g
H	h	h
I	i	i
J	j	y
K	k	k(ʰ)
L	l	l
M	m	m
N	n	n
O	o	o
P	p	p
Q	q	q
R	r	r
S	s	s
Ş	ş	š
T	t	t(ʰ)
Ţ	ţ	ṭ
U	u	u
V	v	w
X	x	ḥ (ḫ)
Z	z	z
Ƶ	ƶ	ž
Ь	ь	ʿ

Table 2.9   Turoyo of Sweden

Letter		Semitists' equivalent
A	a	a
B	b	b
C	c	ʿ
Ĉ	ĉ	č
D	d	d
Ḏ	ḏ	ẟ
Ḍ	ḍ	ḏ̣
E	e	e
Ë	ë	ı
F	f	f
G	g	g
Ĝ	ĝ	γ
H	h	h
Ḥ	ḥ	ḥ
I	i	i
J	j	ǰ
K	k	k
L	l	l
M	m	m
N	n	n
O	o	o
P	p	p
Q	q	q
R	r	r
S	s	s
Ş	ş	ṣ
Ŝ	ŝ	š
T	t	t
Ṭ	ṭ	ṭ
Ṯ	ṯ	θ
U	u	u
W	w	u
X	x	ḫ
Y	y	i
Z	z	z
Ẑ	ẑ	ž

1959. A grammar using this orthography was recently translated into French, but the Assyrian text is not given in that edition.

The alphabet comprises thirty letters (Table 2.8, p. 37). The divergences from the Roman norm coincide with those used in the Azerbaijani Roman script. Capital letters appear in Friedrich's edition where they would in French (sentence initially and beginning proper nouns), and punctuation is as in German.

Orthography is largely surface phonetic; unlike the Syriac-based orthography of Modern Aramaic, it permits the recognition of vowel harmony on the page (*ə* and *i* are the "clear" vowels, *a* and *ь* the "dark," with *e*, *o*, and *u* intermediate). The only vowel for which length is notated is *i* (*ij/ьj*). ꞌ (and ꞌ < ꜥ) is not marked.

Turoyo of Sweden   During the 1970s a sizable community of Turoyo-speaking gastarbeiters and refugees came to Sweden, and the Swedish government set to providing for the education of their children. In 1981 Dr. Yusuf Ishaq was commissioned to create a Roman orthography for the language, and his scheme (Table 2.9, p. 37) has been used in readers and a dictionary (see Ishaq 1990); Otto Jastrow (1996) reports, however, that it has not found acceptance in the Turoyo community of Sweden.

Abugida

The Geꜥez script encodes twenty-six consonants and seven vowels (Table 2.10, p. 39). The basic shape of each consonant represents C*ä*; this shape is altered in a largely consistent fashion to change the vowel of the syllable to *u*, *i*, *a*, *e*, *ə*, and *o* respectively. There is, however, no unambiguous means of indicating that a consonant is followed by no vowel (either introducing a consonant cluster or syllable-finally) or that it is lengthened ("doubled").

In addition to the inherited and innovated simple consonants, Geꜥez also employs a diacritic to mark the labiovelar consonants. The labiovelar feature is neutralized before rounded vowels, so there are only five forms for each of the four labiovelar consonants.

The Amharic script adds to the Geꜥez script a series denoting the palatalized consonants, again by means of a consistent diacritic.

Geꜥez manuscripts do not consistently distinguish the sibilants, laryngeals, etc., which merged in the language, using the ꞌ and ꜥ characters, the *ṣ* and *ḍ* characters, and so on, interchangeably; lexica by modern scholars assign letters consistently according to etymology. Amharic orthography is to some extent historical, writing etymological full spellings of some words that have cliticized into grammatical particles.

Numerals

Mesopotamian mathematics was highly developed, and cuneiform numeral notation combines decimal and sexagesimal elements. Place notation enabled the efficient recording of very large numbers, but there was no explicit zero.

Table 2.10   Script using modified South Semitic order (Ethiopic/Amharic)

	Classical Ethiopic							Additional letters for Amharic									
	ä	u	i	a	e	ə	o	ʷa		ä	u	i	a	e	ə	o	ʷa	
h	ሀ	ሁ	ሂ	ሃ	ሄ	ህ	ሆ											
l	ለ	ሉ	ሊ	ላ	ሌ	ል	ሎ	ሏ										
ḥ	ሐ	ሑ	ሒ	ሓ	ሔ	ሕ	ሖ											
m	መ	ሙ	ሚ	ማ	ሜ	ም	ሞ	ሟ										
š	ሠ	ሡ	ሢ	ሣ	ሤ	ሥ	ሦ											
r	ረ	ሩ	ሪ	ራ	ሬ	ር	ሮ	ሯ										ሯ riyä
s	ሰ	ሱ	ሲ	ሳ	ሴ	ስ	ሶ	ሷ	š	ሸ	ሹ	ሺ	ሻ	ሼ	ሽ	ሾ		
q	ቀ	ቁ	ቂ	ቃ	ቄ	ቅ	ቆ											
qʷ	ቈ		ቊ	ቋ	ቌ	ቍ												
b	በ	ቡ	ቢ	ባ	ቤ	ብ	ቦ	ቧ										
t	ተ	ቱ	ቲ	ታ	ቴ	ት	ቶ		č	ቸ	ቹ	ቺ	ቻ	ቼ	ች	ቾ		
ḫ	ኀ	ኁ	ኂ	ኃ	ኄ	ኅ	ኆ											
ḫʷ	ኈ		ኊ	ኋ	ኌ	ኍ												
n	ነ	ኑ	ኒ	ና	ኔ	ን	ኖ	ኗ	ñ	ኘ	ኙ	ኚ	ኛ	ኜ	ኝ	ኞ		
ʾ	አ	ኡ	ኢ	ኣ	ኤ	እ	ኦ											ኧ ä
k	ከ	ኩ	ኪ	ካ	ኬ	ክ	ኮ		ḫ	ኸ	ኹ	ኺ	ኻ	ኼ	ኽ	ኾ	ዀ	
kʷ	ኰ		ኲ	ኳ	ኴ	ኵ												
w	ወ	ዉ	ዊ	ዋ	ዌ	ው	ዎ											
ʿ	ዐ	ዑ	ዒ	ዓ	ዔ	ዕ	ዖ											
z	ዘ	ዙ	ዚ	ዛ	ዜ	ዝ	ዞ	ዟ	ž	ዠ	ዡ	ዢ	ዣ	ዤ	ዥ	ዦ		
y	የ	ዩ	ዪ	ያ	ዬ	ይ	ዮ											
d	ደ	ዱ	ዲ	ዳ	ዴ	ድ	ዶ	ዷ	ǰ	ጀ	ጁ	ጂ	ጃ	ጄ	ጅ	ጆ		
g	ገ	ጉ	ጊ	ጋ	ጌ	ግ	ጎ											
gʷ	ጐ		ጒ	ጓ	ጔ	ጕ												
ṭ	ጠ	ጡ	ጢ	ጣ	ጤ	ጥ	ጦ	ጧ	č̣	ጨ	ጩ	ጪ	ጫ	ጬ	ጭ	ጮ	ጯ	
p̣	ጰ	ጱ	ጲ	ጳ	ጴ	ጵ	ጶ											
ṣ	ጸ	ጹ	ጺ	ጻ	ጼ	ጽ	ጾ	ጿ										
ḍ	ፀ	ፁ	ፂ	ፃ	ፄ	ፅ	ፆ											
f	ፈ	ፉ	ፊ	ፋ	ፌ	ፍ	ፎ	ፏ										
p	ፐ	ፑ	ፒ	ፓ	ፔ	ፕ	ፖ											

Table 2.11   Numerals

	Greek	Ethiopic	Arabic
0			٠
1	A	፩	١
2	B	፪	٢
3	Γ	፫	٣
4	Δ	፬	٤
5	E	፭	٥
6	Ϛ	፮	٦
7	Z	፯	٧
8	H	፰	٨
9	Θ	፱	٩
10	I	፲	١٠
20	K	፳	٢٠
30	Λ	፴	٣٠
40	M	፵	٤٠
50	N	፶	٥٠
60	Ξ	፷	٦٠
70	O	፸	٧٠
80	Π	፹	٨٠
90	Ϟ	፺	٩٠
100	P	፻	١٠٠
10,000	PP	፼	١٠٠٠٠

The numerals occasionally found in ancient West Semitic texts reflect Demotic Egyptian practice, with vertical strokes for units, horizontal strokes for tens, and some other symbols. The Hebrew, Syriac, and Arabic scripts can still (in non-scientific contexts) use the letters for the numerical values derived from their traditional order. The Ethiopic script likewise uses a set of numerals taken from an alphabet – but in this case it is the Greek alphabet, reshaped to conform to the Ethiopian esthetic (Table 2.11 above).

With the development of mathematics in the Muslim world, on an Indian foundation, in the late eighth century CE, the *hindi* numerals were adopted in forms quite similar to our "Arabic" (or "Hindu–Arabic") numerals, which are directly derived from them. Numbers are built up decimally, with the larger place values at the left (as with European numerals); so also when European-style numerals are used in Hebrew and Aramaic texts.

Writing Materials and Techniques

Mesopotamia and Ugarit

The earliest known writing material used for Semitic languages is clay. Surprisingly little is known about the collection and preparation of the clay used in tablets. The writing implement was a stylus with at least one sharp corner. The wedges that make up cuneiform characters are created by lightly touching it to the clay; the different orientations of wedges (only a few enter into signs) are achieved by rotating both the hand holding the stylus and the hand holding the tablet. Lines could be ruled on the tablet before writing by touching the surface with a taut string of some sort.

Short texts were written on small tablets. When the front (obverse) was filled, the tablet was rotated on the horizontal axis so the first line of the reverse adjoins the last line of the obverse. Longer texts could be written in several columns. The columns read from left to right on the obverse of the tablet; when the obverse was filled, the tablet was rotated similarly and the columns on the reverse written right to left (so the first column on the back adjoins the last column on the front). Short dedications could be mass-produced by impressing them into the bricks for a palace or temple with a wooden or ceramic stamp containing a full text.

Clay hardens, making the document relatively permanent. Wooden boards coated with wax (which took the stylus impressions equally well and was reusable) were apparently widely used for interim record keeping, though only one specimen has survived sufficiently intact to preserve a text. Cuneiform could be imitated by carving into the stone of building materials. Sometimes triangular outlines were incised on bronze; a few commemorative tablets have been found made of gold, which is soft enough to take a stylus impression.

Syro-Palestine and Arabia

The principal medium for writing the abjad was ink, used on papyrus, skin (prepared as leather by tanning or as parchment by liming and scraping) and potsherds. The organic materials can only survive in exceptionally dessicated climates such as prevail in Egypt and the Judean Desert; potsherds (which when inscribed are called ostraca) are not subject to decay, but are fragile, and not many have survived.

Specimens of the ink that have been analyzed always prove to be inorganic: soot, presumably lampblack, was mixed with water and a bit of binder, such as gum arabic, for ordinary black ink; red was made with a mineral, red ocher. The pen was cut from a round, hollow reed with a technique that has varied little through the ages, even as birds' flight feathers began to supplement and in some regions supplant reeds.

Papyrus paper, imported from Egypt, was made from the pith of a tall sedge. This was shaved or sliced into long strips, which were laid edge to edge, then covered with a second layer of strips laid perpendicular to the first, the whole pressed together so the material was bonded with the sap of the plant. When it dried, it pro-

vided a very white, flexible surface. Typically, twenty sheets were glued into a scroll, and it could be written upon on both sides. The codex (book with pages) was in use by the second century CE, associated particularly with Christian (as opposed to pagan or secular) writings.

It is not known how early leather and/or parchment came into use. One group of Aramaic documents from the fifth century BCE is leather (most are papyrus). By the fourth century CE, parchment was widespread (though papyrus remained in use beyond the end of the millennium).

When the Islamic conquest reached Inner Asia, in the middle of the eighth century CE, the craft of papermaking came from China to the West. Paper was made only from textile fibers until the nineteenth century, when wood pulp paper was introduced (to the despair of contemporary archivists, as the acids involved in its manufacture eventually embrittle the paper itself). It was paper that ultimately filled the need created by the diminution of the papyrus supply as the marshes where it grew were replaced by cultivated fields.

Printing
Printing from movable type, too, may reflect a Chinese stimulus to European culture. The first Latin books were produced in the mid-fifteenth century; vernacular printing soon followed, and then various Semitic languages. The earliest reported dates for printing are: Hebrew (first Rashi style, and a few months later Square Hebrew) 1475, Arabic 1514 (first Qur'an 1518, earliest known Qur'an 1537, but not until centuries later in any Muslim land), Ethiopic 1513, Syriac 1555 and Samaritan 1632 (Hessels 1911: 540).

During the nineteenth century, typefonts were cut for various epigraphic versions of the abjad (and for cuneiform), but they have been little used because the limited array of lettershapes cannot be faithful to the variations found in the texts. Transliteration into Hebrew or Roman characters is preferred. Mandaic type was available by 1900, but editions almost always used Hebrew letters, or reproduced manuscripts photolithographically.

Modifying typewriters to print Hebrew and Arabic from right to left was not a challenge, but reducing the inventory of contextual forms required for adequately representing Arabic (and Syriac) was. Even Amharic could be typed, using two or three strokes per letter. Hebrew and Arabic could be typed on personal computers (or their forerunners) – though not yet with vowel pointing – in the 1970s; Ethiopic in the late 1980s; and in the 1990s, Syriac (three varieties, with pointing), Mandaic, and even Neo-Assyrian cuneiform.

Study of Scripts of Semitic Languages

Decipherment
The classical Semitic languages that are the vehicles of scripture in many religions remained in use across the centuries, and manuscripts in them, each language in

its proper script, were known to Europe all along, or were brought there along with scholarly instruction in how to read them: Hebrew, Syriac, Arabic, and also Mandaic and Ge'ez. All the other scripts, though, were recovered by archeology and needed to be deciphered.

The most important prerequisite for the decipherment of any unknown script is **accurate copies** of the enigmatic inscriptions; work begins with identification of a bilingual or virtual bilingual to provide the key. A **bilingual** is a document bearing what can be presumed to be the same inscription in both the unknown language and a familiar one; a **virtual bilingual** is a correspondence that can reliably be assumed between some passage in the unknown text and some phenomenon that is familiar. Choice of an appropriate virtual bilingual is often the key test of the spark of genius required of a decipherer. An unknown script can also be read by "triangulating" from known related scripts; in this case, it is important to have a good idea of the identity and nature of the hidden language.

Many methods of decipherment have come into play with respect to Semitic languages. The first task is to compile a catalog of all the characters in the unknown script. A short list suggests an abjad or alphabet, as in the case of Palmyrene, which was the very first script ever to be deciphered. This was done in 1754 by the French classicist Jean-Jacques Barthélemy – he was the first to read Phoenician, too. If one is fortunate enough to be faced with a bilingual, one hopes it includes proper names and that they can be identified in the unknown script. This was true of the first accurately reproduced Palmyrene/Greek inscriptions. Proper names also constituted the virtual bilingual used by the German schoolteacher Georg Friedrich Grotefend in his interpretation of Old Persian cuneiform, which in turn became the key to Akkadian because Achaemenid imperial inscriptions were erected in three languages (including Elamite). It was an Irish cleric, Edward Hincks, who between 1846 and 1852 made most of the advances in deciphering Mesopotamian cuneiform. He determined that several quite different-looking varieties were equivalent, that signs represented syllables but could have both phonetic and semantic readings – and several of each (and he explained why this was the case), and that Semitic morphological patterns could be used in assigning phonetic values to signs. (The pervasive assignment of credit to Henry Creswicke Rawlinson is due to the obscurity both of Hincks and of the venues in which he published his progress reports, and to Rawlinson's own celebrity.) The distribution of letters at the beginnings and ends of words compared with Hebrew prefixes and suffixes, as well as grammatical patterning, were the techniques used by Hans Bauer, Édouard Dhorme, Charles Virolleaud, and Johannes Friedrich from 1929 to 1933 in deciphering Ugaritic. Alphabets preserved in manuscripts by Muslim antiquarians, as well as information on a Modern South Arabian language, were used by Emil Rödiger and Wilhelm Gesenius in the initial work on Himyaritic (Epigraphic South Arabian) in 1837–1842. As new inscriptions are discovered, such comparison with known scripts and known linguistic varieties is generally how they can be interpreted – the field of epigraphy.

Epigraphy

Semitic epigraphy began in a small way with Barthélemy's decipherment of the principal scripts found on rock inscriptions. An influential synthesis, now very rare and never reprinted, was prepared in the early nineteenth century by Ulrich Friedrich Kopp; Wilhelm Gesenius in 1837 gathered and reproduced what was known of Phoenician and Aramaic inscriptions. Much new material was gathered by nineteenth-century explorers like le Comte de Vogüé; Mark Lidzbarski's *Handbuch der nordsemitischen Epigraphik* remains an invaluable synthesis. The *Corpus Inscriptionum Semiticarum* is nominally still in the course of publication, by the French Académie des Inscriptions et Belles Lettres.

The main current collections of texts useful for individual study, but restricted to Northwest Semitic, are *Kanaanäische und aramäische Inschriften*, edited by H. Donner and W. Röllig, and *Syrian Semitic Inscriptions*, edited by J. C. L. Gibson.

Paleography

Within Semitic studies, little differentiation is made to parallel that within classical studies between epigraphy, the study of inscriptions, and paleography, the study of manuscripts. Only Arabic and Hebrew paleography can be said to be well developed. For Arabic, the pioneer was Silvestre de Sacy at the end of the eighteenth century; great names from the modern period include B. Moritz, A. Grohmann, and N. Abbott. Nabia Abbott specialized in the study of Arabic papyri preserved in the Cairo Geniza.

Hebrew paleography has centered on two topics: medieval manuscripts (an elaborate corpus was published by S. R. Birnbaum) and the Dead Sea Scrolls (where the leading systematizer has been F. M. Cross). The sizable corpus of Aramaic papyri (and leather scrolls) from Egypt, many of which bear explicit dates, provides a solid foundation for these investigations.

Microfilm archives that could prove valuable in investigating the paleography of Syriac and Ethiopic manuscripts respectively have been assembled at the Lutheran School of Theology in Chicago (by the late Arthur Vööbus) and at the Hill Monastic Library, St. John's University, Collegeville, Minnesota, under the care of Getatchew Haile. Mandaic manuscripts have been preserved by Mandean clergy in Iraq, and the Swedish-American scholar Jorunn Buckley has focused her studies on them.

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3 The Arabic Grammatical Tradition

Jonathan Owens

The Arabic grammatical tradition, over 1,000 years old, continues to serve as the basis of Arabic grammatical practice in the Arabic world, and through translations such as Howell's of Ibn Ya'ish and Caspari/Wright's reliance on Arabic grammars, has had a fundmental influence on the Western study of Arabic grammar as well. Though old, the Arabic tradition is not anachronistic, as I will attempt to show. I divide this chapter into four parts. The first discusses the development of Arabic grammatical thinking, the second sketches grammatical theory and methodology, the third Arabic lexicography, and the final briefly looks at it in relation to Semitic studies. I would note that the dates of death of the Arabic grammarians are given in the Islamic/Christian calendars. Literal translations of Arabic linguistic terminology are provided in quotes.

Historical Overview

The study of Arabic grammar developed under two driving impulses, one religious, one practical. The religious motivation was the need to render a correct interpretation of the Qur'an both in its formal and semantic dimensions. The original muṣḥaf, Qur'anic text, unvoweled and lacking diacritic marks, was subject to ambiguous interpretation in numerous places and for various reasons (lexical form, *xufyatan* vs. *xifyatan* 'secretly', morphosyntactic form, *li-tastabiyna/li-ya-stabiyna* 'to become clear', etc.). These problematic cases were never completely "solved," but they were eventually resolved by standardizing them in various Qur'anic readings (*al-qiraa'aat*), which gave list-like descriptions of the different versions of each variant case. The most widely institutionalized, though not the only variants, are the seven readings described by Ibn Mujahid (324/935) in his *Kitaab al-sab'a fiy l-qiraa'aat* 'The seven variant readings'. These confirmed the readings of the late eighth-century Qur'anic readers Nafi', Ibn Kathir, 'Asim, Hamza, Kisa'i, 'Ala', and 'Amir, all of whom have a lineage (*nasab*) traceable to a companion of the prophet.

For purposes of linguistic theory, however, the *qiraa'aat* are of relatively minor

interest since they did little more than list variants. Much more important in the religious domain were works which gave grammatical and semantic analyses of problematic Qur'anic passages, the *ma'aaniy* ('meanings') literature. In this genre problems of all sorts were addressed and various solutions offered, including questions of pronunciation, morphological and grammatical structure, and semantics. One of the earliest and most important works in this class, *Ma'aaniy al-qur'aan* 'The meanings of the Qur'an', by Farra' (207/822) takes as its second topic, for example, the different pronunciations of the words *al-ḥamdu lillaahi* in the opening verse of the Qur'an. In all there are four different versions, the one cited, plus *al-ḥamda lillaahi, al-ḥamdi lillaahi*, and *al-ḥamdu lullaahi*. Most importantly, Farra' explains the linguistic cause for these variants, e.g. vocalic assimilation, cites parallel cases from other areas of the language (both the spoken language, particularly that of the bedouin, and poetry), and touches on questions of morphological analysis, in particular, word division. The *ma'aaniy* literature is a rich source for our understanding of linguistic thinking, with Farra' in particular playing a central role.

The second driving force in the development of an Arabic linguistic tradition was the pedagogical. One tradition has it, in fact, that Arabic grammar was born in response to this need. Grammar was founded when the linguist Abu Aswad al-Du'ali (68/668) heard his daughter say *maa 'aḥsanu* 'what is more beautiful?' when she intended to say *maa 'aḥsana* 'how beautiful is ...'. Horrified at her bad grammar, he established a grammatical system based upon the three inflectional endings of Arabic, so that such mistakes would not be repeated. Whatever the truth of this story, it was clear that pedagogical material for the teaching of Arabic was needed, not least for the Arabs themselves, most of whom were illiterate and hence unready for the administrative tasks which their new conquests had thrust upon them, as well as for the many non-Arabs who formed the backbone of the early civil service. Though languages other than Arabic were used in the earliest periods of Arab rule, the use of Arabic increased steadily over time.

The first extant grammar of Arabic is *al-Kitaab* 'The book' by Sibawayhi (177/793), himself a Persian. It is a prodigious work of nearly 1,000 densely written pages. While this book is itself unsuitable as pedagogical material (Carter 1972), it does have a strongly normative character (Ditters 1992: 17) and is so detailed that in it virtually every major aspect of classical Arabic grammar is defined. All later grammars effectively rely on the *Kitaab* both for their content as well as their theoretical orientation (see next section).

The question of the origins of the Arabic grammatical tradition is one which has been an issue for Western arabicists for over 100 years, and after a mid-century hiatus in the debate, it has again come to the fore in the last 25 years. It is far from being resolved. There are two main issues. First, to what extent did the Arabic grammatical tradition develop on its own or, alternatively, under the influence of other traditions? Second, when did Arabic grammatical theory come into being at all?

The prime issue in the first part of the question concerns the extent to which the

Arabic grammarians were dependent upon earlier Middle Eastern grammatical traditions in the development of their linguistic thinking. Particularly important is the role of the Greek tradition. Carter (1972) asserted that the influence of the Greek tradition was limited, arguing that the considerable Greek intellectual influence in Arabic culture came via translations of Greek works, and that these translations became available *en masse* after the end of the eighth century, by which time the Arabic grammatical tradition had already taken on a more or less fixed structure. Instead, the Arabic tradition developed largely under an internal impetus, in which, in particular, Islamic legal terminology and concepts provided a rich source of analogy for the linguistic (see also Fleisch 1994).

Against this, Versteegh (1977) sees the Greek tradition as having a key role, even in the formative stages of Arabic linguistic thinking. The influence, however, came not from the officially supported translations, but rather from a living Greek pedagogical tradition which the Arabs encountered in the conquered Greek territories. Furthermore, Versteegh suggests that the Arabic grammarians may have taken over certain methodological practices from the tradition of Greek empirical medicine. Moreover, Rundgren (1976: 140) has observed that Greek translations may have been available in Syriac or Persian in the conquered Persian territories before the later large-scale Greek translations into Arabic.

It is not a contradiction to say that both viewpoints have cogency. The Arabic grammatical tradition, as early as 200/800, had a depth and detail hardly to be accounted for in terms of borrowing. At the same time, certain similarities exist between aspects of Greek pedagogical grammar and Arabic practice which make independent development an implausible explanation. Progress is unfortunately hampered in answering the question of extent of outside influence by the relative dearth of original Greek sources.

The second question, period of origin, is one which had already been documented in considerable detail by the Arabic grammarians themselves. One example of this documentation, concerning Abu Aswad Al-Du'ali, was cited above. The most important constructs postulated by the Arabic grammarians for explaining the origins of the Arabic grammatical tradition were the existence of two linguistic schools, the Kufan and the Basran. According to this, the earliest Arabic grammarians were aligned in two opposing schools, one centered in Basra, the other in Kufa (near modern Najaf in Iraq). The chief protagonists were Xalil and Sibawayhi for the Basrans and Kisa'i and Farra' for the Kufans, though virtually all of the early grammarians were categorized as belonging to one school or the other. According to one popular view, a major methodological difference separating the two was that the Basrans tended to favor the use of analogy in solving linguistic problems, while the Kufans put greater emphasis on the existence of exceptions to general rules.

The historical existence of the two schools, as described in the Arabic tradition, was challenged in the early part of this century by Weil (1913), who argued that the two schools were the creation of fourth/tenth-century grammarians such as Mubarrad and Sarraj. In the need to systematize Arabic grammar, they were con-

fronted by the fact that in the earlier period, particularly in the main works of Sibawayhi and Farra', differences of terminology and concept were found. The general labels of Basran and Kufan were then applied to these ideas *post hoc*, and grammatical thinking became orientated around these two poles. Generally speaking it was the Basran (Sibawayhian) version of grammar which became the standard one (see Ibn al-Anbari's *al-ʾInṣaaf* 'Equitable treatment').

Weil's ideas receive some support from Baalbaki's (1981) observation that in the works of Sibawayhi and Farra' themselves there is no mention of schools of grammar, while Owens (1990) argues that the earlier period of grammar, up to the end of the third/ninth century, was characterized by a relative conceptual and terminological heterogeneity in regards to linguistic thinking, that was subsequently replaced by the *post hoc* Basran/Kufan dichotomy. Talmon (1992: 818), on the other hand, would see a linguistic reality in the two schools even in the earlier period, though to date his ideas have yet to be presented in detail.

How old the Arabic grammatical tradition is, remains an unanswered question. It appears quite suddenly, fully developed, around 200/800, in the works of Sibawayhi and Farra', and the lexicographic work of Xalil (*Kitaab al ʿayn* 'Book of the letter ʿayn'). To what extent and in what way these scholars were dependent on their predecessors is difficult to answer directly for the same reason that the potential Greek predecessors of Arabic linguistic thinking are problematic: lack of original texts prevents an easy overview of pre-second/eighth-century grammatical commentary. Versteegh (1993), showing that there are relatively few hints about the origin of Arabic grammatical theory in early (i.e. pre-800) exegetical texts, tends only to deepen the mystery. The study of indirect sources such as the extant grammars themselves and the bio-bibliographical literature, will hopefully shed more light on this question.

If the earliest period of Arabic grammar is still rather shrouded in darkness, the same is fortunately not true of the post-Sibawayhi period, in particular the period beginning with Mubarrad (285/898) and running up to the present day. While there remains a great deal to be studied in the medieval Arabic linguistic tradition, its important developmental stages are readily discernible. In the rest of this section I will very briefly outline what these were, and in the next will summarize the theoretical and methodological basis on which they were built.

Aside from the Qur'anic exegetical tradition (Farra', Naḥḥas, etc.), in which linguistic disputes are set out, but only in so far as they illuminate particular textual problems, the two bases of the linguistic tradition are grammar in the broad sense (*naḥw* 'way', including phonetics, phonology, morphology and syntax) and lexicography. Prototypical works are Sibawayhi's *Kitaab* for the former and Xalil's *Kitaab al ʿayn* for the latter. These two works represent the first compendia in these two genres, and one finds like-spirited works appearing at regular intervals from that time onwards.

The lexicographic tradition was by its nature the less variegated. The form of dictionaries remained much the same (see pp. 55–56), the main variation from the large reference dictionaries being the production of short lexica describing spe-

cialized subjects, such as vocabulary related to horses, Hadith (stories about the Prophet), the Qur'an, dialectal variants (*luɣaat*) and others.

The grammatical, on the other hand, underwent a slow but steady differentiation. Sibawayhi's grammar was basically about core grammar, even if it touched on related fields like pragmatics and markedness theory (see p. 000). It has, however, the nature of a reference grammar, and to fulfill more practical pedagogical needs two developments occurred. On the one hand, short summaries of a limited subject matter, like the category of gender in nouns (cf. Farra''s *al-Muðakkar wa l-mu'annaθ* 'Masculine and feminine gender') were written, or, simply, lists of examples contrasting certain morphological forms (the verb form *faʿala* vs. *'afʿala* for example) were drawn up. On the other, the reference grammars themselves were made more transparent in their organization, and short summaries of the reference grammars were written (e.g. Ibn al-Sarraj's *al-Muwjaz fiy al-nahw* 'Summary of grammar', *c.* 100 pages, based on his *al-'Uṣuwl fiy al-nahw* 'The foundations of grammar' *c.* 1,200).

As the organization of grammar was systematized, a greater interest developed in organizational principles. The notions of basic and secondary or marked and unmarked, *'aṣl/farʿ* 'root/branch' playing a decisive role here. These were especially prominent in the fourth/tenth century. Ibn Jinni's *al-Xaṣaa'iṣ* 'Characteristica' being the *tour de force* in this genre.

In the context of controversy surrounding the inimitability of the Qur'an (Bohas, Guillaume, Kouloughli 1990: 116), there developed a greater interest in the contextual, both textual and situational, and pragmatic aspects of language structure. Jurjani (471/1078) in his *Dalaa'il al-'iʿjaaz* 'The proofs of inimitability' paid particular attention to the information structure of language, and later al-Astarabadhi (686/1286) and Sakkaki (626/1228), among others, gave prominence to speech act theory. Still later (*c.* 1400) scholars working within the *ʿilm al-waḍʿ* (Weiss 1966) addressed the structure of semantic relations. In addition, works of bio-bibliographical summary, the *ṭabaqaat*, were produced at various periods, and there were linguistic analyses of Arabic poetry, particularly those important for linguistic analysis.

It is important to note that Arabic linguistic thinking developed in an accretionary rather than substitution-like fashion. If Jurjani developed a theory of sentential information structure, he saw it as complementing, not replacing, the grammatical analysis of the sentence that he inherited from his predecessors. While his *Dalaa'il* lays the foundation for a sub-discipline known as rhetoric (*balaaɣa*), his *Muqtaṣid* 'The mediating' is a wholly orthodox compendium of Arabic grammar.
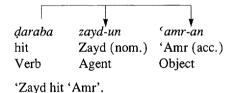
The Form of Arabic Grammatical Theory

As I have emphasized in the previous section, Arabic grammar developed continually over a period of time. Nonetheless, discrete stages are discernible where the grammatical tradition took on a fixed form (see Owens 1991: 233), and one can use these as reference points in summarizing the theory and methodology behind

the grammatical thinking.

As far as the core grammar goes – phonology, morphology and syntax – a key grammarian is the Baghdadian Ibn al-Sarraj (316/928). His *al-ʾUṣuwl fiy al-naḥw* effectively established the form of grammatical treatises which is in use in the Arabic world up to today. While I therefore make reference especially to Sarraj here, it should be noted that, by and large, his methodology and theoretical orientation follows that of his predecessor Sibawayhi.

Arabic grammars (including Sibawayhi's) treat syntax before morphology, giving equal weight to the two, phonology as part of morphology (i.e. morphophonology), and phonetics as part of phonology. There are three axiomatic elements in Arabic syntactic analysis. Items substitute for each other, forming classes. The places of substitution are identified as grammatical functions. The functions are linked to each other by means of dependency relations which determine case form. If this pithy summary makes Arabic syntactic practice sound like "prescient" structuralism it is because modern grammatical theory does indeed rest on the same foundation as that supporting Arabic theory (Carter 1973, Owens 1988). The following example, using the simplified, didactic style of the grammarians, serves as an illustration.

ḍaraba	*zayd-un*	*ʿamr-an*
hit	Zayd (nom.)	'Amr (acc.)
Verb	Agent	Object

'Zayd hit 'Amr'.

This sentence consists of three functions, a verb (*ḍaraba = fiʿl* lit. 'doing'), an agent (*zaydun = faaʿil* 'doer') and an object (*ʿamran = mafʿuwl bihi* 'done to it'). The verb governs both agent and object, the former in the nominative, the latter in the accusative. At each position other items could occur. In subject position, for example, one could have *muwsaa* 'Musa', for example:

ḍaraba muwsaa ʿamr-an

It happens that *muwsaa* has one invariable form, and the characteristic *-u* nominative suffix does not appear on it. By virtue of its substituting at the agent position, however, *muwsaa* is equally an agent, and it is equally governed by the verb, its form being implicitly (*muqaddar* 'implied') nominative. It is by the use of substitution techniques that a whole range of morphologically irregular forms, pronouns, demonstratives, compound and diptotic nouns, etc. are accommodated within a simple grammatical framework. An Arabic syntax is by and large an explication of what can occur and cooccur at each of the thirty or so syntactic positions which are customarily distinguished. Among the most important are topic (*mubtadaʾ* 'beginning') and comment (*xabar* 'news') in a nominal sentence, verb

(*fiᶜl*), agent (*faaᶜil*) and the various types of objects in the verbal sentence (direct object, *mafᶜuwl bihi*, absolute object *mafᶜuwl muṭlaq* 'what is done unrestricted', locative (termed either *mafᶜuwl fiyhi* 'done in it' or *ẓarf* 'container'), as well as the various nominal elements, adjective (variously, *naᶜt* 'description', *ṣifa* 'quality' or *waṣf* 'description'), substitute (*badal* 'replacement') and conjunct (*ᶜaṭf* 'bending'), to name but a few. Within each of these categories various subclasses were distinguished.

The largest functional unit in Arabic is the sentence (*kalaam* 'speaking, talk, statement' or *jumla* 'sum'), though a function of special type since its existence is not established by a single substitution class. Nor are the functions which are in a sentence, *jumla*, said to be functions of the sentence. One never finds in Arabic grammars phrases such as 'agent of the sentence' (*faaᶜil al-jumla* or *faaᶜil al-kalaam*). Instead, the concept integrating the sub-parts of the sentence, verb, agent, object etc. is dependency. One item, a verb, for example, as in *ḍaraba zayd-un ᶜamr-an*, governs (*yaᶜmilu*) another in a particular form, nominative in the case of agent, accusative in the case of object. In general the Arabic notion of dependency and that defined in certain modern versions (e.g. Tesnière 1959) rest on common principles.

Arabic morphology, or *ṣarf* 'turning away', has as its basis a formal and a distributional component. The distributional consisted in the division of Arabic words into three major classes: noun (*ism* 'name'), verb (*fiᶜl*) and particle (*ḥarf* 'edge'). Each of these in turn contained numerous subclasses. Under noun, for example, was understood common and proper nouns, adjectives, pronouns, demonstratives and relative pronouns. The rationale for the subclassification was partly formal – nouns have case endings but particles do not, for instance – but ultimately, distributional properties were decisive, each class being defined by its mutual commutational possibilities (see Owens 1989). The ability of an item to be substituted at a syntactic position defined the basic unit of morphology, the word (*kalima*): whatever can be commuted is a word, for instance the subject *muwsaa* in *ḍaraba muwsaa ᶜamr-an*. The *m* or *muw* of *muwsaa*, however, cannot alone be substituted with other items, are not therefore words, and hence are not units susceptible to analysis at the level of *ṣarf*.

While the word is the morphological element which is distributed in larger constructions, the basic unit of morphological analysis is the root (*ʾaṣl* 'root'), a consonantal skeleton. This skeleton was represented conventionally by the template *fᶜl* (the root for 'doing'), which stands for the three consonantal positions, initial, medial and final, that most roots have. Roots of more than three consonants were represented by adding an *l* for each basic consonant; *tarjama* 'translate', would have the structure *fᶜll*. The combination of root + vowel pattern, forming a stem, is designated *wazn* 'weight' or *binaaʾ* 'building'. It is the stems, of course, which make up the word classes. Short vowels generally had no special status in Arabic morphological theory, though their discrete morphological status was hinted at (Owens 1988: 110 on the thirteenth-century grammarian Astarabadhi). The stem *kataba* = the *wazn* "*faᶜala*" is simply an instance of a 3rd person perfect verb.

Of course, stems in Arabic can consist of more than basic root consonants + vowel patterns. They may contain, singly or in various combinations, prefixes (*ma-ktab* 'office'), infixes (*ʾin-t-aqala* 'move') and suffixes (*ḥamr-aaʾ* 'red (f.)'). It was well recognized that these elements often represented, relative to the consonantal root, extra-lexical semantic elements, and they were given a distinct status and representation in morphological theory. A basic distinction was drawn between the root (*ʾaṣl*) and non-root (*zaaʾida* 'increasing') consonants, the latter by and large comprising the affixes. Whereas the root consonants are represented in the standard template as *fʿl*, the added consonants were represented by themselves, so that the morphological structure of the three examples given above in this paragraph would be *ma-fʿal*, *ʾi-f-tʿala* and *faʿl-aaʾ*. Usually a consonantal root appears in a number of morphological guises, and identifying all of them was the domain of *taṣriyf* 'alteration, drainage', effectively the identification of all basic and derived forms applicable to a given root.

In most cases the added consonants are readily distinguishable from the root. In the relatively few cases where they are not, various criteria (semantic, morphotactic, derivational, see Owens 1988: 115) were developed for deciding what belonged to the root, what not.

A more fundamental problem to the representation of root/non-root structure was presented by the various phonological changes which root consonants could undergo. *Miyzaan* 'weight', for instance, is based on the root *wzn*, though no *w* is discernible in it. The greater part of Arabic morphology concerned itself with explaining the various phonological changes which roots could undergo.

The changes were phrased in terms of general phonological processes, deletion (*ḥaδf* 'deleting'), assimilation (*idɣaam* 'insertion'), substitution of one sound for another (*badal* metathesis) (*taḥwiyl* 'transformation'), and rules which affected the 'weak' consonants *w* and *y* (*qalb* 'heart, center'). The rules applied to ideal underlying morphological forms which served as the input. *Miyzaan* 'scales', for instance, is based on the underlying form *mi-fʿaal* (cf. *mi-qdaar* 'measure') = *mi-wzaan*. A general phonological rule changes the sequence *iw* to *iy* (cf. e.g. *duʿiya* 'be invited' < *duʿiwa*). The rules apply in succession, and a given underlying form may undergo four or five different rules before the final surface form is reached, as is the case, for instance, with *qul-tu* 'I said', from underlying **qawal-tu*.

The rules defining the changes are not strictly phonological, but rather morphophonological. That is, potentially every rule with phonological effect has its domain restricted by morphological domain: a rule may apply to nouns, but not to verbs, or vice versa; a rule that holds for a basic consonantal root may not apply to a non-basic (*zaaʾid*) one; rules applying stem initially (at '*f*') may not apply stem finally (at '*l*').

Arabic morphophonological theory is entirely orientated toward explaining formal deviation from an underlying stem. It is thus not surprising that phonetics is not introduced as an independent component of grammar parallel to syntax and morphology, but rather in conjunction with one aspect of morphophonology, namely assimilation. Most assimilation rules, like the voicing of *t* in *iḍḍaraba* 'be

confused' (< *iḍtaraba*), or the emphatization of *t* in the same example, are speci-
fiable only with a precise phonetic description of the sounds involved, for assim-
ilation can be due to various phonetic factors: in the example just cited two
independent assimilation processes are attested, one in terms of voicing, the other
in terms of manner (emphasis).

While phonetics is, within the Arabic model, conceptually a part of morphol-
ogy, the classificatory categories used are largely articulatory and were sub-
categorized as to place (some fifteen points in all distinguished, starting from the
glottis, the classification being hampered by the fact that no theoretical distinction
was drawn between an active and passive articulator); manner (including stops
šadiyd 'strong', fricatives *rixw* 'loose, flabby' etc., eight in all) and voicing (or
tenseness, various interpretations have been given the terms *majhuwr/mahmuws*
'made loud/whispered'). A sound like *t* was thus given a multiple characteriza-
tion: voiceless (*mahmuws*), stop (*šadiyd*), pronounced at the tongue tip and inci-
sor tip, and implicitly, non-emphatic (not *muṭbaq* 'covered'). Assimilation could
affect a sound along one or more of these classificatory parameters.

The core grammar thus contained detailed treatment of syntax, morphology
(and morphophonology) and phonetics. As already mentioned, the data, and for
the most part, theoretical descriptive apparatus pertaining to this grammar are to
be found in Sibawayhi, and were organized in a coherent way by Ibn al-Sarraj.
Around Ibn al-Sarraj's time a further interest gained prominence, one touched on,
but not developed as an independent linguistic endeavor, in the pre-tenth-century
grammar. This was an interest in the relation between items fulfilling the ideal
grammatical/morphological structure (*'aṣl*) of the language and those deviating
from this ideal (*far'* 'branch, twig'). The ideal pertained both to structures and to
items realizing these structures. The ideal was in some sense the most basic, sim-
plest, or, the metaphor I prefer, unmarked to be found. For instance, in morphol-
ogy the ideal root was one containing three consonants (not four or five, which are
statistically marked), none of which are "weak," i.e. *y* or *w*, since these consonants
tended to undergo various sorts of phonological changes. In syntax the most un-
marked parts of the sentence were topic and comment of a nominal sentence and
verb and agent of the verbal sentence, whereas direct objects and locative objects
are marked (*far'*). The "proof" that topic/comment and verb/agent are unmarked
is that they, in opposition to objects, are obligatory. Virtually any grammatical cat-
egory could be given a markedness status relative to another one, and in some
cases markedness hierarchies were postulated, one item being closer to the basic
(*'aṣl*) category than one (*far'*), but less close than another. For instance, Bohas
and Guillaume (1984: 68) point out that Sibawayhi draws up a three-way
hierarchy defining the sounds '–*y*–*w* (going from least to most marked), whereby
the 'heaviest' (*'aθqal* 'heavier', most marked) may undergo certain changes
which the others do not. Thus, the initial *w* of *waqaʿa* 'he fell' is deleted in the
imperfect, *yaqaʿu*, whereas the *y* will usually be kept, *yayminu* 'go right'. The ex-
planation for this is that *y* is lighter (*'axaff*) 'lighter' or less marked than *w*.

Implicitly, the entire organization of Ibn al-Sarraj's grammar is built around the

notion of markedness, always beginning with unmarked categories then moving to marked. In summarizing the various grammatical functions, for instance, he begins with a summary of the functions which the nominative case could assume (topic, comment, agent), since the nominative was assumed to be the basic case. He moves next to accusative functions (absolute, direct, locative object, etc.), and ends with the genitive (possessive, object of preposition), the least basic. Markedness considerations further informed the treatment within these categories. Among the nominative functions, for example, the nominal sentence is treated before the verbal, based on the assumption that nouns are unmarked relative to verbs.

Interest in pragmatic matters led to a further layer of grammatical analysis. Jurjani (471/1078) sought to explain the meaning difference between (a) and (b)

(a)   *δahaba zayd-un* '(What happened is that) Zayd left'
(b)   *zayd-un δahaba* '(It is) Zayd (who) left'

on the basis of new and old information. (a) would be appropriate if one were concentrating on the action itself, whereas (b) would be appropriate if the actor Zayd were the most important aspect of the discourse. The new information was placed first, the presupposed afterwards. It is important to note here that Jurjani essentially formalized a multi-systemic analysis of sentence structure: at the grammatical level (a) is a verbal sentence and (b) nominal, two fundamentally distinct sentence types. At the informational level both sentences share a common dichotomization into new/given information.

Pragmatics continued to interest linguists. A basic distinction was drawn between performative (*inšaaʾiy* 'creative') and enunciative (*xabariy* 'reportive') utterances (Larcher 1991), and detailed analyses were made of individual structures. The seventh/thirteenth-century grammarian al-Astarabadhi, for example, analyzed *laakinna* 'but' in terms of the predicate *ʾastadraktu* 'I have corrected', an abstract semantic element whose 1st person subject reflects al-Astarabadhi's assumption that each utterance presupposes a speaker (Larcher 1992).

Lexicons

Arab scholars were equally active in the field of lexicography. Ibn Manẓur's (711/ 1311) *Lisaan al-ʿarab* 'The Arabic tongue', for instance, runs to fifteen volumes, each volume about 400 pages long, approximately 80,000 entries in all. While the dictionaries were comprehensive to a fault, it is notable that they never attained the structured order found in the study of grammar (see Langhade 1994, Haywood 1959: 82, Wild 1965: 56). I will briefly illustrate this here with a summary of the entry for *kfr* (Vol. 5: 144–151) from the *Lisaan*.

The main organizing principle within the lemmas was semantic and pragmatic, a given stem form being repeated as often as distinct meanings were associated with it. The lemma for *kfr* begins with the verbal noun *kufr* with the (1) meaning

'disbelief' (*naqiyd al-'iymaan*); in the next short paragraph *kufr* is given with the (2) sense of 'disavowal of grace', and in the long third paragraph *kufr* in the (3) sense of 'denial (*juhuwd*) of grace'. There is no explicit intimation that the meanings are related. Sometimes other derivationally related forms are listed with the different senses of *kufr*, sometimes not. With the first sense four related verb forms are given (*yakfuru, kafarnaa, kafaruw* twice), three in examples, one to illustrate verbal nouns. No definition of a verb *kafara* is offered. Three verbal noun forms in the function of absolute object are listed with the first meaning, *kufran, kufuwran* and *kufraanan*. There is no discussion of their respective meanings. With the second sense of *kufr* no other related forms are listed. With the third a large number are, including again the verbal nouns *kufuwran, kufraanan*, as well as other forms, *kaafir* (with its three plurals, *kuffaarun, kafaratun* and *kifaarun*), *mukaffar* 'denied grace and its goodness', and others (twelve in all). Again, there is usually no explicit definition of the meanings of these related forms. One would assume presumably that they are to be accommodated under meaning three. There is further discussion of various connotations of *kufr*, though under which of the first three senses they are subsumed is not made clear. *Kufr* in the sense of 'innocence' is discussed on p. 145. It is noteworthy that at the end of p. 145 the basic ('*aṣl*) meaning of *kfr* is said to relate to 'covering'. The basic meaning, however, is introduced only after lengthy discussion of the pragmatically more prominent religious connotations of the root. On p. 147 a new sub-entry, *kafr* 'covering' is introduced and on p. 148 *kufr* returns again, though with the meaning 'pitch for sealing ships'. The lemma for *kfr* ends with further morphological forms based on *kfr*.

Throughout the lemmas are found references from the Qur'an, Hadith, and poetry, and various grammatical points, mainly morphological are mentioned, such as whether a noun is diptotic or not. The interpretations of previous lexicographers are cited quite often.

In strong contrast to formally based grammar, meaning has a more central role than form. There is no single form *kufr*; rather there is *kufr₁* with meaning 1, *kufr₂* with meaning 2, *kufr₃*, etc. The derivationally related forms, the *taṣriyf* of *kfr*, are consequently listed only when they happen to have some special semantic relation to the sense of *kfr* under discussion. The basic passive participle form *makfuwr*, for example is mentioned only once and that in the sub-lemma *kafr* meaning 'dust' (*turaab*): *ramaad makfuwr* means 'dust-covered ashes'.

In terms of the structure of its lemmas, the *Lisaan* is more or less typical of earlier works (e.g. Ibn Sida's (458/1066) *Muḥkam* 'The precisely planned' and later lexicons like al-Zabiydi's (1205/1791) *Taaj al-'aruws* 'The crown of the bride' had relatively little organizational improvement. It was only in the nineteenth century that dictionaries took on the form common today.

The Arabic Grammatical Tradition and Comparative Semitics
As far as the theoretical and methodological underpinnings of the Arabic tradition

go, there is little of special interest to comparative semitics, aside from what they have to say about the overall cultural history of the regions where Semitic languages are spoken. Such basic notions of linguistic analysis as substitution and dependency are, presumably, of universal application. The Arabic tradition has had a fundamental influence on other Middle Eastern grammatical traditions, like the Hebraic and Coptic, and it would be of interest to know to what extent the similar structure of the languages facilitated their adoption of the Arabic grammatical model. Such an investigation, however, is probably of more interest to general linguistic theory than to Semitic studies.

There is, however, an invaluable, if inadvertant, contribution in the Arabic grammatical tradition to general Semitics. This lies in the great compendia of facts recorded by the grammarians and lexicographers, dialectal forms, socially marked forms and outright mistakes (*lahn*) for example. This material was used extensively by Rabin (1951), though it is far from being exhausted, and its judicious evaluation will be of fundamental interest to Arabic studies in particular and Semitics in general.

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4 The Hebrew Grammatical Tradition

Arie Schippers

Grammatical activities in the field of Hebrew appeared relatively late, in a period when Hebrew was no longer spoken. Even the most colloquial Hebrew variant, rabbinical Hebrew, had died out in the second century. Hebrew had for centuries been limited to synagogical and literary use. The Bible was transmitted by the Jews from generation to generation, but the vocalization and accentuation notes had to be added as "punctuation" to the consonantal text, probably only from the beginning of the seventh century. This was at least the opinion of the Rabbanites (the mainstream of Judaism) who recognized later traditions such as the orally revealed Mishnah and the Talmud as a completion of the Written Law of the Bible.

The Qara'ites, however, were of the opinion that the Bible was self-explanatory and required no completion by Oral Law such as the Mishnah and Talmud, which were considered by the Rabbanites as writings with great authority. The Qara'ites claimed that the Bible had been revealed in its entirety, "graven upon the tablets," i.e. "full with vowel and accent signs and not lacking in vowel and accent signs" *Eškol ha-kofer* (see p. 61). Consequently, they were very active in adding diacritics. This activity was called the Masorah, i.e. 'transmission' or 'numbering of the verses' (Arabic *al-ma:sirah*). The first Masoretes were the Ben Ašer family of whom Abu Sa'id Aharon ben Mošeh was the most conspicuous member (first half of the seventh century).

One of the systems of vocalizing, the so-called Tiberian system, acquired priority in the Jewish world. That may be the reason that a ninth-century author even pretended that he had heard common people in the streets of Tiberias speaking Hebrew, suggesting that there was still a living tradition.

The development of philology led to the addition of diacritics and served as a foundation for the grammatical work starting in the tenth century. In the beginning writing about grammar was considered by many to be a vain activity. Grammarians tried to prove that language studies were necessary for the proper understanding of the written Word. Qara'ites and Rabbanites disagreed in their interpretations of Biblical Hebrew. Another factor which stimulated grammar studies was the activity in the field of Arabic grammar by Muslim scholars. The

abundance of Arabic philological and grammatical literature was no doubt a stimulus for the Jews who occupied themselves with Hebrew. This phenomenon of the sudden renaissance of Hebrew studies in the tenth and eleventh centuries may also have been the reaction of the *šuʿu:biyyah* against the dominant position of the Arabic language. This movement, supported mainly by officials of Persian origin, stressed the particular values of the non-Arab peoples (*šuʿu:b*) within Islam.The Jews became more aware of the value of their own culture and their holy language as well.

The Golden Age of Hebrew Grammar: The Creative Period

The first among the philologists of the Hebrew language was Saʿadyah Ga'on or Saʿadiyyah ibn Yu:suf (892–942), born in Fayyu:m (Egypt), the head of the Jewish community in Babylonia (Iraq) and the foremost personality in Rabbanite Judaism during the first half of the tenth century. He wrote the *Kita:b al-sabʿi:n lafẓah al-mufradah* 'Book of the seventy unique words', the first to explain *hapax legomena* (words or roots found only once in the text) of the Bible according to their use in rabbinical literature. He also compiled the *Kita:b uṣu:l al-šiʿr al-ʿibra:ni:* 'Book of the Roots of Hebrew Poetry', usually referred to by its Hebrew title *Agron* 'Compendium', the first Hebrew dictionary with glosses in Arabic. It consists of two alphabetic listings, according to the first and the last letters. Saʿadyah Ga'on wanted poets to use a better Hebrew. He pointed out the difference between letters that stand for the basic meaning of the word, and added letters that represent affixes. Equally important was his *Kita:b faṣi:ḥ luɣat al-ʿibra:niyyah* 'Book of the pure Hebrew language', in which morphological questions of the Hebrew language were dealt with for the first time.

The interest in linguistic problems spread quickly through North Africa. In Tahort, a town in what is now Algeria, lived Yehudah ibn Quraysh (tenth century), who dedicated his *Risa:lah* 'Treatise, Epistle' to the Jewish community of Fez. He compared Biblical Hebrew with Aramaic, Mishnaic Hebrew, Arabic and other languages such as Berber.

In the East we have the work by the Qara'ite Abu:-l-Farağ Haru:n ibn al-Farağ from Jerusalem, the *Kita:b al-ka:fi: fi-l-luɣah al-ʿibra:niyyah* 'The adequate book on the Hebrew language' and the 579-page manuscript, written in Jerusalem about 1000, *Muštamil ʿala:-l-uṣu:l wa-l-fuṣu:l fi:-l-luɣah al-ʿibra:niyyah* 'Comprehensive Book on the Roots and Branches of the Hebrew Language'. Part 1 of the latter is devoted to the ten principles (*uṣu:l*) used to determine a form in language; part 2 deals with infinitives; part 3 with the letters of the alphabet and their division into essential (*ğawhariyyah*) and servant letters (*xawa:dim*; roughly the same distinction between basic letters and added ones as made by Saʿadyah, see p. 60). Part 4 deals with particles while part 5 considers many kinds of grammatical questions: gender, number, pronouns, transitivity and lexicology. Part 6 is concerned with the conjugation of the verb *ḥaleq*; part 7 with a lexicography and triliteral verbs according to the anagram system; part 8 is a comparison of Hebrew with

biblical Aramaic.

Abu:-l-Farağ's anagram method looks very much like that of the Arabic grammarian al-Xali:l ibn Aḥmad (710–786) in his dictionary *Kita:b al-ʿayn*. This dictionary is not arranged alphabetically, but by groups of sounds, probably under Indian influence, starting with the consonant combinations with the Arabic letter 'ayn. Abu:-l-Farağ started by explaining all the root combinations containing the Hebrew consonant letter 'ayn, subsequently dealing with other consonant combinations. The following roots are found in the extant remnant of *al-Muštamil*'s letter 'ayn: ʿBR, ʿRF, ʿMR, ʿŠB, ʿFL, ʿṢB. Under ʿBR all the permutations of the three consonant letters are listed, namely: ʿBR, ʿRB, BʿR, BRʿ, RBʿ, RʿB.

Among other Qara'ite works are David ben Abraham al-Fa:si:'s extensive dictionary of Biblical Hebrew in Arabic, called *Kita:b ja:miʿ al-alfa:z* 'Comprehensive book of sounds' and two grammatical texts: the anonymous book *Meʾor ʿayin* 'Eye Light' or 'Enlightenment of the Eye', composed at the end of the eleventh century and the *Eškol ha-kofer* 'The cluster of camphire' (cf. Song of Solomon 1:14)/'The grape of henna' by the twelfth-century author Yᵊhudah Hadassi. The former work does not seem to have been influenced by the Andalusian Rabbanites and has a completely different grammatical system, whereas the latter is heavily influenced by the Andalusian grammarians Ḥayyu:ğ and Ibn Ğana:ḥ (see pp. 62–63).

The renaissance of Hebrew which manifested itself in the study of Hebrew grammar and the new school of Hebrew secular poetry, took place in tenth- and eleventh-century Muslim Spain. Jewish patrons emulated the courtly habits of their Muslim colleagues. Mošeh ibn 'Ezra (1055–1138), himself a poet, tells us in his *Kita:b al-muḥa:ḍarah wa-l-muδa:karah* 'Book of discussion and commemoration' about the learned men who made the revival of Hebrew possible. In the fifth chapter of his *Kita:b*, devoted to a survey of Hebrew literature in Muslim Spain, Mošeh ibn 'Ezra begins (28b) by stating that the reason for the Spanish Jews' mastery of the Hebrew language was the fact that they originated from Jews in Jerusalem, where the purest Hebrew was acquired and from where God's Law and Word had come. After the arrival of the Arabs in Andalusia (711 CE), the Jews delved deeply into Arabic science, linguistics and poetry (29b). Thereupon God revealed to them the secret of their own holy language: phenomena such as weak and additional letters were recognized. The first grammarians lived at the Cordoban court of the Jewish patron Abu: Yu:suf Ḥasday ibn Isḥaq ibn Shapru:ṭ (915–970). About this maecenas, whose activities initiated the flowering of Hebrew Andalusian poetry, Mošeh ibn 'Ezra says in his *Kita:b* (30ab): "He firmly established the pillars of science by surrounding himself with wise men from Syria and al-'Iraq. The authors of his time ... wrote admirable works. They praised him in their beautiful poems and writings in the Arabic language. In exchange, therefore, he distinguished them with his graceful gifts, while he provided all the necessary means to satisfy their wishes."

One can conclude from Mošeh ibn 'Ezra's sketch that the new poetical school arose at a time when there were also many linguistic activities. Linguistic and

poetic activities stimulated and influenced each other. Hebrew poets rivaled the
Arabs in their poetry and adopted the ideal of distilling the purest poetic language
from the Hebrew of Holy Scripture.

M°naḥem ibn Saruq (born c. 915, Tortosa) lived at the court of Ḥasday ibn Sha-
pru:ṭ. His lexicon of the Hebrew language, the *Maḥbèrèt* 'Book, Compendium',
was believed to be a step forward compared with Sa'adyah Ga'on's dictionary.
Menaḥem differentiated between roots (*y°sod*, *°iqqar*, *šòrèš*) and the paragogic or
added element (*tosèfèt* 'addition', *mašar°tim*, 'servants') within the Hebrew word
(see p. 60).

This differentiation, however, already appears in the writings of the Tiberian
Masorete Aharon ben Ašer (see p. 59) and of Sa'adya ha-Ga'on (p. 60). But
M°naḥem did not possess the theoretical foundations to discover the weak con-
sonants. For him any consonant that could disappear during the flexion of a root
does not belong to its basis, but is an added consonant. By means of this empirical
process, he admits a large number of monoconsonantal and biconsonantal roots.
Contrary to the widespread custom of writing scientific works in Arabic, his dic-
tionary was written in Hebrew. It was therefore widely disseminated in Europe.

M°naḥem's critic, Dunaš ibn Labraṭ (a name of Berber origin; born c. 925 in
Morocco; educated in Baghdad by Sa'adyah), established himself in Cordoba, at
the court of Ḥasday ibn Shapru:ṭ. Dunaš ibn Labraṭ's criticisms were directed
mainly against the identification of roots by M°naḥem and against the meanings
he attributed to words, which often entailed theological consequences. Dunaš's
criticisms of M°naḥem unleashed a polemic between the pupils of M°naḥem and
of Dunaš. The pupils of M°naḥem also criticized the new metrics introduced by
Dunaš in the poetry of the new Hebrew Andalusian school. This criticism of the
inadequacy of the Arabic meters for Hebrew poetry was to be repeated later by
Y°hudah ha-Le:wi (p. 63).

The discovery of the triradicalism of the Hebrew words and verbs by Yehudah
(Abu: Zakariyya Yahya:) ben David al-Fa:si: Ḥayyu:ǧ (c. 930–c. 1000; born at
Fez, lived in Cordoba) was revolutionary for Hebrew grammar. He hoped that, by
the correct philological knowledge of Biblical forms, the holy language would be
used again by scholars and poets just as in antiquity. Ḥayyu:ǧ wrote two mono-
graphs. He came to the conclusion that every Hebrew verbal root consisted of at
least three letters (consonants). He called *alef, yod, waw* and *he:* "weak" or "soft,"
because these letters are not written phonetically, but visible in the text. He recog-
nized that the *primae yod* verb *yašav* has three radicals, and not two, as earlier
grammarians would say on the basis of the sometimes invisible *yod*. He also dis-
covered the concept of compensatory lengthening (Arabic *madd* 'lengthening')
from the basic forms (Arabic *aṣliyyah*) of the sound verbs (e.g. *pa°al*, or *šamar*).
To represent the verbal forms he uses the root *p-°-l* (inspired by the similar use of
f-°-l in Arabic). In his *Kita:b al-af°a:l ðawa:t ḥuru:f al-li:n* 'Book of the verbs
with weak letters' he recognizes the following four categories of weak verbs: (1)
the *verba primae alef*; (2) the *verba primae yod*; (3) the *verba mediae infirmae*
(with a medial weak radical: *yod* or *waw*); (4) the *verba tertiae infirmae* (whose

final radical is weak *alef* or *he:* = *yod* or *waw*). These are weak because they may be omitted in part of the paradigms. In his *Kita:b al-afʿa:l δawa:t al-miθlayn* 'Book of the geminate verbs' Ḥayyu:ǧ dealt with defective forms of verbs that have identical second and third radicals (*verba mediae geminatae*).

Yonah ibn Ǧana:ḥ (born in Cordoba *c.* 990) wanted to write a comprehensive and systematic grammar of Biblical Hebrew in the tradition of Ḥayyu:ǧ. In his old age, after 1039, he composed the work which he had been preparing for a long time, namely the *Kita:b al-tanqi:ḥ* 'Book of detailed investigation'. The first part of this book, the *Kita:b al-lumaʿ* 'Book of variegated flower beds' was a most comprehensive grammar in the tradition of Ḥayyu:ǧ. The second part, the *Kita:b al-uṣu:l* 'Book of the roots', contains a complete vocabulary of Biblical Hebrew, without personal or place names. The letters are listed under their Arabic equivalents, following the order of the Arabic alphabet (according to roots, geminates coming before *tertiae alef* words). Each derived word is translated into Arabic.

The poets Šᵊmu'el han-Nagid (993–1055), Šᵊlomo ibn Gabirol (1021–1058), and Yehudah ha-Le:wi (1075–1141) were also interested in grammar. Šᵊlomo wrote a didactic poem in Hebrew on grammar called *Se:fer ha-ʿanaq* 'Book of the necklace'; 98 lines from the original 400 are still extant. Šᵊmu'el han-Nagid is reported to have written some comments on grammatical works and a dictionary of Biblical Hebrew. Yehudah ha-Le:wi wrote his *Maqa:lat al-ʿaru:ḍ* 'Treatise on metrics' – metrics were considered to belong to linguistics – and his *Kita:b al-xazari:* 'Book of the Khazar king', in which he made important remarks on the contemporary situation of the Hebrew language.

Mošeh ibn Chiquitilla or Chicatella lived in the eleventh century. Mošeh ibn 'Ezra considered him "one of the principal learned men and linguists" (36b). He published a volume entitled *Kita:b al-taδki:r wa-l-ta'ni:θ* 'The Book of masculine and feminine genders'.

Yᵊhudah ibn Bal'am or Bil'am also lived in the eleventh century. Apparently he was born in Toledo, but settled down in Seville after the Christian conquest of Toledo. He was gifted with a polemical spirit and criticized Sa'adyah Ga'on, Yonah ibn Ǧana:ḥ and Šᵊmu'el han-Nagid. He even accused Mošeh ibn Chiquitilla of being an atheist, and attacked his rationalism, he himself being a traditionalist. His writings include the *Kita:b al-taǧni:s* 'Book of Homonyms' and the *Kita:b al-afʿa:l al-muštaqqah min al-asma:'* 'Book on the denominative verbs'.

Ibn Baru:n (*c.* 1100, Saragossa) was the author of the *Kita:b al-muwa:zanah bayn al-luɣah al-ʿibra:niyyah wa-l-ʿarabiyyah* 'Book of comparison between the Hebrew and the Arabic language'. In this work he mentions nearly all the preceding linguists and also Arab grammarians. It contains a section on the comparative grammar of Arabic and Hebrew, and a lexicographical section. In the latter he presents the biblical roots which have an equivalent in Arabic in pronunciation and meaning.

The Second Period of the Grammarians of Hebrew: The Period of Dissemination

In this period the grammarians of Hebrew were less original than their predecessors. But philosophical linguistic questions still troubled them: they developed ideas about the essence of language and its epistemological nature, thoughts about the origin of language and the reason for the multiplicity of the languages, the links between language and climate, the question whether language was natural or conventional, and of whether it was created or pre-existent (Zwiep 1995).

After the Christian reconquest of some territories and the expulsion of the Jews from Muslim Spain by the Almoravids and Almohades, most Jewish intellectuals lived in Christian Spain and Provence, where the knowledge of Arabic was declining. They therefore translated most of the grammatical works from Arabic into Hebrew. The Hebrew versions were disseminated all over Europe. The translators tried to express in concise Hebrew the findings of Ḥayyu:ǧ and Ibn Ǧana:ḥ. Adaptations for Western Europe were made by Abraham ibn 'Ezra (1089–1164), Ibn Parḥon (twelfth century), Yᵊhudah ibn Tibbon (c. 1120–c.1190), Jose:f Qimḥi: (c. 1105–1235) and his sons Dawid Qimḥi: (c. 1160–1235) and Mošeh Qimḥi: (died c. 1190, and Yiṣḥaq ben Mošeh ha-Le:wi, called Profiat Duran (died c. 1414). Jose:f Qimḥi: is specially worth mentioning because of his vowel theory. Instead of the traditional seven 'kings' (vowels), he opted for five contrasting pairs of long and short vowels [a:-a; e:-è; u:-u; o:-o; i:-i]. In connection with David Qimḥi: we have to mention his *Miḵlol* 'Magnificence', the most widely disseminated grammar and dictionary of Hebrew in the Middle Ages.

Further Reading

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PART II

OLD SEMITIC

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5 Akkadian

Giorgio Buccellati

Akkadian is the oldest attested Semitic language (with Eblaite, which several Assyriologists consider a branch of Akkadian, though it is treated separately in this volume). The earliest period, known as Old Akkadian, dates to between 2350 and 2200: the major textual evidence consists of royal inscriptions. After a Sumerian resurgence, from which fewer Akkadian texts are found, the documentation resumes shortly after 2000 BCE and continues unbroken until about the time of Christ, with all major types of texts attested for most periods. It is also from that date that begins the distinction between Babylonian in the South and Assyrian in the northeast. Four periods may be distinguished, corresponding roughly to cycles lasting about five centuries each: Old Babylonian and Old Assyrian in the first half, Middle Babylonian and Middle Assyrian in the second half of the second millennium; Neo-Babylonian and Neo-Assyrian in the first half and Late Babylonian in the second half of the first millennium. It is generally assumed that Akkadian came to be no longer spoken sometime in the first half of the first millennium, when it was effectively replaced by Aramaic. In addition, Assyriologists speak at times of Classic Babylonian, referring to the Old Babylonian dialect and its survivals. The most important such survival is also known as Standard Babylonian, which describes the language used in the literary texts copied and in some cases written in the first half of the first millennium.

The best-known literary texts, such as Gilgamesh or the Creation Epic, are preserved in their most complete textual versions in tablets from the late periods written precisely in Standard Babylonian, but there are significant literary texts from all periods, including especially political texts (royal inscriptions). The Code of Hammurapi is in part a legal text and in part a document of political literature, thus providing the best example of Classic Babylonian. We are also fortunate in having several thousand letters from all periods, which give us the best evidence for spoken language.

Phonemics

Akkadian phonemes show a considerable reduction of the inventory from an earlier/archaic stage. In particular, all pharyngeals and laryngeals came to be realized (at least by the beginning of the second millennium) as glottal stop, and all inter-

dentals as sibilants. The only innovative element is the introduction of a vowel *e*, which in part was conditioned by the loss of pharyngeals and laryngeals (e.g., *ʿabār-* > *ʾebēr-* 'to cross'). The full inventory is as follows:

Consonants

p	t				k		ʾ
b	d				g		
	ṭ				q		
			s	š	ḫ		
			z				
			ṣ				
m	n						
		l					
		r					
w			y				

Vowels

i	u
e	a

All vowels and consonants may occur either long or short; notation of length in cuneiform writing is for the most part irregular. Assyriological practice distinguishes two degrees of lengths, marked respectively by a macron and a circumflex, e.g., *bānû* 'builder'. There is however no indication that such a distinction obtained in actual phonemic reality, and it is generally applied according to historical criteria: contraction length is rendered by a circumflex, and morphological length by a macron. It seems best to avoid Assyriological use and retain a single length indicated by a macron.

Very little is known about stress, but it, too, appears to be non-phonemic.

Internal Inflection

The Root

Internal inflection is a system comprising two interdigitating sets of discontinuous morphemes, roots and patterns.

Structurally, a root can be isolated only when it interdigitates with at least two patterns. For example, the three nouns, *dunn-* 'power', *ʾumm-* 'mother', and *ṭupp-* 'tablet', seem to be derived from the same pattern *purr-*. But while *dunn-* is part of a distributional array which includes *dann-* 'powerful', *dunnun-* 'to strengthen', there are no such forms as *ʾamm-*, *ʾummum-*, *ṭapp-*, *ṭuppup-* – hence we cannot isolate any such root as *ʾmm or *ṭpp.

Properly, the term "nominal root" should be used for such roots from which multiple noun formations (and no verb formations) may be derived. In Akkadian, this obtains only with numerals. Otherwise, all roots are verbal-nominal, in that both verbal and nominal patterns may be derived from them. This means that all verbs imply a root, while nouns may or may not imply it. There are no roots from which only verbs can be derived.

Also lexical in nature is the "root vowel." The term implies that this vowel is an element of the root, on the same level as the consonants and therefore a morphological element – but that is not so. The root vowel is a lexical determinant for appropriate patterns from finite verbal forms from any root, and will be treated below with patterns.

All Akkadian roots consist of three or four elements, called "radicals." Each radical can be either (1) a simple consonant, or (2) a set of possible realizations, including length and Ø next to regular consonants. Only one realization occurs for the radical at any given time, and it is conditioned morphophonemically. The roots of the first type are called "strong" roots, those of the second "weak" roots.

There are limits to the combinations of consonants which can occur together to form a root. For example, two emphatics do not cooccur in the same root, and when comparative considerations would require them, one of them is realized as voiceless (e.g., Akkadian *ṣbt* for Semitic *ṣbṭ*).

Patterns

Formal Aspects
There is a difference in pattern formation between nouns and verbs. They fall in different groups characterized by special sets of markers. While the nominal patterns may be arranged in a unilineal sequence, with each pattern becoming progressively more complex, the verbal patterns are bidimensional, defined by a system of two coordinates.

The system of verbal and nominal patterns overlap with regard to their internal inflection in three instances: the infinitive, verbal adjective and participle. From the point of view of external inflection, all three behave like nouns, receiving endings for number, gender, case, but not person, tense or mood. These three patterns however, are fully integrated from the viewpoint of internal inflection, into the co-ordinate system of verbal patterns. In addition, these three types of nouns, alone among all nouns, can govern both the genitive case (like other nouns) and the accusative case (like the verbs). Because of this special relationship with the verb, these nouns will be considered throughout as part of the system of verbal patterns and called "verbal nouns." The other nouns which are also derived from a verbal root, but do not fit into the coordinate system or govern the accusative, will be called "deverbal nouns." The verbal patterns proper (aside from verbal nouns) will be called the "finite forms."

The traditional paradigm is followed here (Table 5.1, p. 72), with some modification. Apart from minor points of nomenclature (e.g., *B* for the basic stem rath-

Table 5.1 Finite forms with affixes of external inflection

		Imperative	Preterite	Perfect	Present
B Sg.	3c.		’-iprus	’-iptaras	’-iparras
	2m.	purus	t-aprus	t-aptaras	t-aparras
	f.	pur[u]s-ī	t-aprus-ī	t-aptar[a]s-ī	t-aparras-ī
	1c.		’-aprus	’-aptaras	’-aparras
Pl.	3m.		’-iprus-ū	’-iptar[a]s-ū	’-iparras-ū
	f.		’-iprus-ā	’-iptar[a]s-ā	’-iparras-ā
	2c.	pur[u]s-ā	t-aprus-ā	t-aptar[a]s-ā	t-aparras-ā
	1c.		n-iprus	n-iptaras	n-iparras
N Sg.	3c.		’-ipparis	’-ittapras	’-ipparras
	2m.	napris	t-apparis	t-attapras	t-apparras
	f.	napris-ī	t-appar[i]s-ī	t-attapras-ī	t-apparras-ī
	1c.		’-apparis	’-attapras	’-apparras
Pl.	3m.		’-ippar[i]s-ū	’-ittapras-ū	’-ipparras-ū
	f.		’-ippar[i]s-ā	’-ittapras-ā	’-ipparras-ā
	2c.	napris-ā	t-appar[i]s-ā	t-attapras-ā	t-apparras-ā
	1c.		n-ipparis	n-ittapras	n-ipparras
D Sg.	3c.		’-uparris	’-uptarris	’-uparras
	2m.	purris	t-uparris	t-uptarris	t-uparras
	f.	purris-ī	t-uparris-ī	t-uptarris-ī	t-uparras-ī
	1c.		’-uparris	’-uptarris	’-uparras
Pl.	3m.		’-uparris-ū	’-uptarris-ū	’-uparras-ū
	f.		’-uparris-ā	’-uptarris-ā	’-uparras-ā
	2c.	purris-ā	t-uparris-ā	t-uptarris-ā	t-uparras-ā
	1c.		n-uparris	n-uptarris	n-uparras
Š Sg.	3c.		’-ušapris	’-uštapris	’-ušapras
	2m.	šupris	t-ušapris	t-uštapris	t-ušapras
	f.	šupris-ī	t-ušapris-ī	t-uštapris-ī	t-ušapras-ī
	1c.		’-ušapris	’-uštapris	’-ušapras
Pl.	3m.		’-ušapris-ū	’-uštapris-ū	’-ušapras-ū
	f.		’-ušapris-ā	’-uštapris-ā	’-ušapras-ā
	2c.	šupris-ā	t-ušapris-ā	t-uštapris-ā	t-ušapras-ā
	1c.		n-ušapris	n-uštapris	n-ušapras

er than *G* for the German "Grundstamm"), and of sequence (*BNDŠ* instead of *BDNŠ*), the main difference is that the permansive is not considered here a "tense" of the verb, but rather a special form of nominal sentence (see p. 81–82, 87).

In contrast to the verbal patterns, the nominal patterns do not exhibit such a correlation of markers, and can only be listed in a unilinear fashion. When a pattern is closely correlated with a given stem, it is formally limited to just that particular stem, i.e., the characteristic marker is not carried over into other stems. For example, the pattern *taprīs-* is characteristic of the *D* stem (it occurs frequently with roots which are attested only in the *D* stem, e.g., *teslīt-* 'prayer'). But, the characteristic *t* in front of the first radical does not occur with this meaning for patterns connected with other stems.

Even though the system of nominal patterns is unilinear, it is nevertheless a true system because each pattern does have a specific meaning which is then integrated

with the semantic value of the root to form the word proper. In this the deverbal nouns are markedly different from non-interdigitating nouns (primary nouns and loanwords) which may be of the same shape but do not carry the meaning of the pattern. For example, all nouns of the pattern *mapras-* from verbal roots normally carry a meaning which can be placed under the category of noun of instrument (or place); but the word *mašmaš-* 'incantation priest', though outwardly of the same shape, does not have anything in common with that category, because it is a loanword from Sumerian.

Notional Categories
The formal system of coordinates outlined above has a close correlation with semantic categories and syntactic values. One set of forms include the infinite and finite forms, i.e., verbal nouns, moods and tenses. The two moods are the imperative to express positive command, and the indicative to express a statement. The indicative mood is divided into three tenses, i.e., forms which denote the temporal position of the action *vis-à-vis* the speaker: preterite for past action and present for present or future action. Traditional Akkadian grammar recognizes a third tense, the perfect, but a separate morphological status for this tense is doubtful, and it seems more likely that forms so understood should be treated as preterites of the *t*-stem. In this presentation, however, the perfect is retained as a separate tense.

The most important stems are the following:

B stem   for the basic meaning of the root
D stem   as factitive, intensive, pluralitive of *B* (lengthening of the middle radical)
Š stem   as causative or elative of *B* (prefix *Š*)
N stem   as passive or ingressive of *B* (prefix *N* or length)
t   as reciprocal or separative of *B* and passive of *D* and *Š*
tn   as iterative of *B, N, D, Š*

Here are some examples. For one set of forms, no relationship is involved: the infinitive (*'alākum* 'to go'), the stative participle (*damqum* 'good'), the active participle (*ṣābitum* 'the one who seizes'). Another set of forms does involve the relationship of time: the present–future refers to an action which is either contemporary or posterior (*iqabbī* 'he speaks' or 'he will speak'), the preterite refers to a past action (*iqbī* 'he spoke'), the imperative refers to an action contemporary with the speaker – command (*qibī* 'speak!'). If retained as a distinct verbal form, the perfect refers (in some periods of Akkadian) to an action which is following an earlier point in time, or which came before the speaker's utterance (*iqtabī* 'he then spoke', 'he will have spoken').

We have roots of condition (for which the term "stative" can be used), and of action ("fientive"). The infinitive is indifferent to aspect (*damāqum* is either stative 'to be good', or fientive 'to become good'), the first participle is stative (*dam[i]qum* 'good, endowed with the condition of goodness'), while the second

participle is fientive (*ṣābitum* 'the one who seizes at a given point in time'). However, all finite forms are punctual.

, The attitude of the speaker refers to the stance taken *vis-à-vis* the process, depending on whether process is described in a statement, or solicited through a summons. The traditional terms used for this are 'indicative' in the first case, and 'imperative' in the second. Both are called moods. Note that this notional category is represented by two different types of formal categories, that is, the moods derived through internal inflection (described here) and those derived through external inflection (for which see below).

As indicated earlier, nominal patterns, or deverbal nouns, do not exhibit as complex a paradigm as the verbal patterns, because instead of a matrix, they have a more linear pattern. One major distinction obtains, on the notional level, depending on whether or not a reference is implied to the subject of the verbal process. In the first case we have subject nouns (*ṣabbātum* 'robber') and in the other description nouns (i.e., nouns which describe the process as such, without reference to a subject), for example, *ṣibtum* 'seizing'. In terms of the verbal nouns, the first category is parallel to the participles, and the second to the infinitive.

Patterns from Strong Triradical Roots

All verbal patterns (see Table 5.1, p. 72) include two to four vowels (except for the affixes which are elements of external, not internal, inflection). The vowels are always short except in two cases, the *B* infinitive and the *B* participle. Only the first and last vowels, however, are distinctive; the middle vowel(s), when present, is/are always, indistinctively, the same, namely *a* (which may have been realized as *ə*).

The function of the first vowel is to serve as auxiliary stem marker. It may be noted that a vocalic differentiation of the stems is often necessary, because consonantism by itself is not always distinctive – for example, in the *B* present (*pr:s*) and *D* present (also *pr:s*). The first vowel of the *B* and *N* stems is either *a* or *i*, with the exception of the *Bt(n)*, *N*, *Ntn* participle and the *B* imperative. The first vowel of the *D* and *Š* stems is *u* throughout.

The last vowel serves as the main noun/tense marker. A differentiation of the nouns and tenses by vowel is generally necessary, because consonantism by itself is usually not distinctive, as in the *D* preterite (*pr:s*) and present (also *pr:s*). In the derived stems, the final vowel is as follows: *u* for infinitive and durative participle, *i* for punctual participle, imperative preterite and perfect and *a* for present.

The root vowel is determined lexically, and one will derive notations as to vocalism (*a*, *i*, *u*, and *u/a*) from the lexicon. The vocalism of the last syllable is, in the patterns of the *B* and *N* stems, dependent upon this lexical item for each finite form and most imperatives.

The root vowel is either a single phoneme (*a*, *i*, *u*) or a set of two alternating phonemes (*u/a*). When the root is single, the same vowel is found in all finite forms of *B(tn)* or *N(tn)*. When the root vowel is alternating, *a* is found in all the same finite forms except for the imperative and preterite *B*, where *u* is found. In

the case of some verbs, the imperative and preterite *N* (but not the perfect) show *i* as the last vowel, under partial influence of the vocalism of *D* and *Š*.

Patterns from Strong Quadriradical Roots

The patterns from quadriconsonantal roots are symbolized by *pršd* as equivalent of *prs*. The vocalism is identical to that of triconsonantal pattern, except that an extra vowel *a* is added whenever there would otherwise be three consonants in cluster.

No quadriradical occurs in the *B* stem, except for the verbal and deverbal nouns listed in the paradigm above. A few roots occur only in the *D* stem, while all others occur only in the *N(tn)* and *Š(tn)* stems. Some common roots are *šqll* 'to hang', *blkt* 'to cross, go over', *pršd* 'to flee'.

External Inflection

The Noun

General Concepts and Notional Categories

There are two basic types of nominal external inflection. The first consists of afformatives which are added immediately to the core of an interdigitating noun, or to the base of any other noun (primary, loanword, or even proper name). These afformatives serve to derive nouns from other nouns, hence they are here called denominal afformatives. The second type consists of markers for number, gender and case of which there are four different sets, traditionally called "states." Each noun can occur in any one of these states.

Denominal afformatives and markers for number and gender have a specific semantic value which is context free. Afformatives are an aspect of lexical derivation, and have traditionally been associated with internal inflection; however, this correlation is valid on the notional level only, while on the formal level afformative derivation and internal inflection are irreducible. Thus *Aššur-ī-um* 'Assyrian' on the one hand and *damq-um* 'good' on the other are identical in terms of derivational value (as adjectives), but presuppose completely different morphological processes.

There are cases where morphological marking does not correspond to the pertinent physical features, e.g., when a singular marker is used for items which are plural in count ("collective"), or when an item which is feminine in sex is not marked as feminine in gender. There are also cases where no sex differentiation is present in the pertinent items, e.g., with inanimates or abstracts, though they still have a grammatical gender.

The markers for state and case serve as overt signals of certain syntactical correlations, and as such they are intrinsically context bound. A syntactical description, however, will sort the data from the viewpoint of syntactical categories, which do not correspond on a one-to-one basis with morphological markers.

Hence it is useful here to index, as it were, the pertinent markers for their value, leaving for the syntax a structural explanation of what this value really is. The states of the noun serve as markers for predication and annexation (a special type of nominalization). The cases serve as markers for major and minor constituents within sentences or noun phrases.

The first or "normal" state (e.g., *sinništum* 'a woman') exhibits the fullest range of variations, with a basic distinction in three cases, two numbers and two genders.

The second or "construct" state (e.g., *sinništi* 'the woman of') differs from the normal state in the case inflection, in that the basic distinction is only between two cases, and also because of some difference in the case endings themselves.

The third or "absolute" state (e.g., *sinniš* 'woman') exhibits only a distinction for gender and number, and none for case.

The fourth or "predicative" state (e.g., *sinnišat* 'she is a woman') is completely undifferentiated, i.e., it exhibits no inflectional variation at all when bound with suffix. It differentiates for gender and number only when the suffix is zero.

Denominal Afformatives

The main denominal, or derivational, afformatives, are only three, but they are common in usage and structurally important. They all serve to form nouns out of other nouns. The first of these is used for description of condition, the others for the subject of action or condition.

1   *-ūt-* is used to form abstracts, e.g., from the core *šarr-* 'king' one derives *šarr-ūt-* 'kingship'; the afformative can be added to loanwords (e.g., *ṭupšarr-ūt-* 'scribal art') and even proper names (e.g., *Ḫanigalbat-ūt-* 'Ḫanigalbat citizenship').

2   *-ān-* is used to form an adjective from another noun, e.g., *ḫurāṣ-ān-* 'golden', or to emphasize the subject aspect when it is derived from a subject noun, e.g., *šarrāq-ān-* 'a particular thief'. In the latter usage the afformative *-ān-* is especially frequent before plural markers of the masculine, e.g., *il-ān-u* 'particular gods' (as different from *il-ū* 'the gods, the pantheon'). (Note that traditionally *-ānu* is considered as a single plural marker next to *-ū*; the reasons why I prefer to split the ending in two are: the "plural" *-ānū* does have a particularizing meaning which fits well with value of the denominal afformative, and the "plural" *-ānu* on the one hand and the denominal afformative *-ān-* on the other are in complementary distribution – in other words, there is no plural *-ān–ānu*.)

3   *-ī-* (known as *nisbe*) is used to form an adjective from another noun or pronoun, or from a proper name, e.g., *maḫr-ī-* 'first' (from *maḫr-* 'front'); *mimm-ī-* 'all any' (from *mimma* 'whatever'); *Uruk-ī-* 'Urukean'.

It should be noted that the afformatives are the only productive denominative devices in Akkadian when primary nouns, loanwords, or proper names are at stake. For, without the possibility of deriving verbs out of these nouns (as re-

marked already above), no adjective can be derived from them through internal inflection.

The Normal State

The normal state is characterized by the fullest range of inflectional variations. Gender and number on the one hand, and case and number on the other are closely intertwined, so that structurally it seems best to present the system as comprised of two subsystems, one for the singular and one for the plural.

Table 5.2 The normal state

Number	Gender Masculine Substantive	Adjective	Feminine After *pars-, parr-*	After other shapes	Case
Sg.	šarr-Ø-um	ṣeḫḫer-Ø-um	šarr-at-um	ʾil-t-um	nom.
	šarr-Ø-am	ṣeḫḫer-Ø-am	šarr-at-am	ʾil-t-am	acc.
	šarr-Ø-im	ṣeḫḫer-Ø-im	šarr-at-im	ʾil-t-im	gen.
Pl.	šarr-Ø-ū	ṣeḫḫer-ūt-um	šarr-āt-um	ʾil-āt-um	nom.
	šarr-Ø-ī	ṣeḫḫer-ūt-im	šarr-āt-im	ʾil-āt-im	acc./gen.

Glosses: *šarrum* 'king'; *ṣeḫḫerum* 'small'; *šarratum* 'queen'; *ʾiltum* 'goddess'

In the singular, the masculine is unmarked, the feminine is characterized by an infix *-at* after the pattern *pars-* and after patterns ending in a long consonant, and by an infix *-t-* in all other cases, e.g:

> *kalb-at-* 'bitch'
> *šarr-at-* 'queen'
> *damiq-t-* 'good (f.)'

The set of case endings in the singular is triptotic, with *-um* for the nominative, *-am* for the accusative, and *-im* for the genitive.

In the plural, the masculine is marked only indirectly, by the fact that it has a special (diptotic) set of case markers, namely *-ū* for the nominative, and *-ī* for the oblique. Note the lack of mimation (final *m*) and the presence of length which is generally a marker of plural number. A masculine plural ending *-ānu* is generally recognized in Akkadian grammar, but it seems best to interpret forms of this type as a regular plural in *-ū* added to the afformative *-ān-*, e.g., *šarr-ān-ū* 'the particular kings' (see above).

The feminine plural is marked by a single infix *-āt-*, followed by a diptotic set of case endings, *-um* for the nominative, and *-im* for the oblique. In addition, there is a special marker for the plural masculine of adjectives, namely *-ūt-*, which is also followed by a diptotic set *-um* for the nominative and *-am* for the oblique.

The basic system just outlined applies regularly only to Old Babylonian. Begin-

ning with Middle Babylonian and then especially in Neo-Babylonian and Standard Babylonian, mimation and case endings in the singular are not used regularly (perhaps because the final short vowel was dropped as a result of phonological change), while in the plural the ending -ī (often changed phonologically to -ē) is used for all cases. As a result, the basic case declension may be considered monoptotic in the later periods, with uniform endings Ø for the singular and -ī/-ē for the plural.

The -m found at the end of the singular and of the feminine plural is considered here an integral part of the case markers, but this requires some qualifications. This final -m is often dropped in Old Babylonian, and then regularly in later dialects: since no particular contrast is apparent between forms with and without final -m, this feature is generally considered a free variant, called "mimation."

A dual marker is used, already in Old Babylonian, only for words implying duality, e.g., kilallān 'both', and especially for parts of the body which occur in pairs, e.g., šepān 'the two feet', ubān-ān 'the fingers (of the two hands)', šap-t-ān 'the two lips', šinn-ān 'the two (rows) of teeth'. The dual case is not productive in the specific sense that it is not used to express dual number as such, but only a semantic category, i.e., parts of the body occuring in pairs. Thus "two kings" is not expressed by *šarr-ān, but rather by a noun phrase with the numeral for "two": šarrū šenā 'two kings'.

Three additional postfixes belong in some respects to the same distributional class as the case markers, although they are different in other respects. They are:

locative	-ūm	warḫ-ūm	'on a given month'
modal	-ī	šalš-ūm-ī	'being the third day, the day before yesterday'
terminative	-iš	il-iš	'to god'

Traditionally, only the locative and terminative are recognized as being related to the case system, while the modal is considered separately under a variety of headings; it does, however, belong to the same distributional, and notional, class as the locative and terminative.

The main difference with respect to the other case markers is that -iš may also occur in conjunction with other case endings, specifically -ūm and -am, e.g., ūm-iš-am 'daily', kir-iš-ūm 'into the orchard'. Also, they are attested only in the singular, both in the masculine and the feminine, e.g., šall-at-iš 'as booty'. Another important difference is that the terminative can also be added to a proper name which is otherwise undeclinable (e.g., Idiglat-iš 'to the Tigris') – another indication that it is not fully aligned with the other case markers, and behaves more like a postposition. The terminative (and possibly also the locative, though this is disputed) serve also to express the comparative, e.g., šall-at-iš just quoted; often the ending iš in this function is preceded by the afformative -ān-, e.g., rīm-ān-iš 'like a bull'.

The Construct State

A noun in the construct state is bound with another element which can be either a noun or a pronominal suffix in the genitive, or a clause with the verb in the subjunctive. The term "construct" refers to the noun in the construct state, "construent" to the element bound with the construct, and "constructive" to the pair of both elements, e.g., *bēl bītim* 'master of the house' is a constructive in which *bēl* is the construct and *bītim* the construent.

Two types of constructs may be distinguished. Construct I occurs when the construent is a noun or a clause; Construct II when the construent is a pronominal suffix, e.g.:

Construct I:	*bēl bītim*	'the master of the house'
	bēl illiku	'the lord who went'
Construct II:	*bēl-šu*	'his lord'

This inflection for gender and number is identical to that of the normal state.

The inflection for case is more reduced. We must distinguish different sets of case endings, and while all together three cases may be isolated, no single set is in fact triptotic. (There are a few exceptions such as *ab-* 'father' or *aḫ-* 'brother' which exhibit the set *-ū, -ā, -ī* in Construct II.) A first set shows zero for all three cases; a second, zero for nominative and accusative, and *-ī* for genitive; and a third, *-ū* for the nominative and *-ī* for accusative and genitive:

	Set 1	Set 2	Set 3
Nominative	Ø	Ø	*ū*
Accusative	Ø	Ø	*ī*
Genitive	Ø	*ī*	*ī*

Set 1 is used in the singular of Construct I and in the plural of Construct I with preceding infixes; set 2 is used in the singular of Construct II; set 3 is used in the plural of Construct I without infixes and in the plural of Construct II. See Table 5.3, p. 80.

The dual is identical to the normal state, without final *n*, e.g., *šēp-ā* 'the two feet of'.

The postfixes *-ūm, -ī* and *-iš* are the same in the construct as in the normal state. The locative is attested for all genders and numbers, the modal is attested only in the singular masculine, and the terminative is not attested in the masculine plural.

A special ending *-am* or *-a* is used in poetry, proper names and lexical lists. It is attested only for the singular masculine of Construct I, almost exclusively for the nominative, though occasionally also for vocative and accusative. It is never attested for the dual or the plural, nor for the genitive, nor for Construct II. In most cases it is used with adjectives, e.g., *rapšam uzni* 'broad of ear', 'broad of understanding', instead of expected *rapaš-Ø uzni*.

Table 5.3   The construct state in syntactical context with morphophonemic resolution of forms with Ø

Pattern with gender infixes	Word	Construct I		Construct II
Ends in simple consonant	bēl-um		*bēl* bītim ṭāb *bēl* bītim āmur	*bēl*-šu ṭāb *bēl*-šu āmur
		ana	*bēl* bītim the master of the house	(ana *bēlī*-šu) his master
Ends in vowel	kala-um		*kala* ilī ṭābū *kala* ilī āmur	*kalū*-šunū ṭābū *kalā*-šunū āmur
		ana	*kala* ilī all of the gods	(ana *kalī*-šunū) all of them
Polysyllabic, ends in long consonant	kunukk-um		*kunuk* šarrim ṭāb *kunuk* šarrim āmur	*kunukka*-šu ṭāb *kunukka*-šu āmur
		ana	*kunuk* šarrim the seal of the king	(ana *kunukkī*-šu) his seal
Monosyllabic, ends in long consonant	libb-um		*libbi* ālim ṭāb *libbi* ālim āmur	*libba*-šu ṭāb *libba*-šu āmur
		ana	*libbi* ālim the heart of the city	(ana *libbī*-šu) his heart
Polysyllabic, ends in cluster	nidint-um		*nidinti* šarrim ṭāb *nidinti* šarrim āmur	*nidinta*-šu ṭāb *nidinta*-šu āmur
		ana	*nidinti* šarrim the gift of the king	(ana *nidintī*-šu) his gift
Monosyllabic, ends in cluster	kalb-um		*kalab* awīlim ṭāb *kalab* awīlim āmur	*kalab*-šu ṭāb *kalab*-šu āmur
		ana	*kalab* awīlim the dog of the man	(ana *kalbī*-šu) his dog

Glosses: *ṭāb* 'is good'; *āmur* 'I saw'; *ana* 'to'
Note: Forms in parentheses do not have a case ending in Ø.

The Absolute State
The noun in the absolute state (used rarely, and mostly in an adverbial sense) inflects only for number and gender. In the singular, the masculine is unmarked, the feminine has a marker *-at*; in the plural, only the feminine marker *-ā* is attested. The feminine singular is unmarked with nouns which have no feminine singular marker in the normal state, whether they are feminine by agreement or have a feminine plural marker (e.g., *ubān-Ø-um/ubān-āt-um* 'finger' – absolute state *ubān-Ø/ubān-ā*). Primary nouns with a feminine singular marker in the normal state, and with no masculine counterpart may occur in the absolute state either unmarked (e.g., *sinniš-t-um* 'woman' – *sinniš-Ø*) or with *-at* (e.g., *bām-t-um* 'half' – *bām-at*; *kall-at-um* 'daughter-in-law' – *kall-at*). There is no inflection for case. The complete inflectional scheme therefore is quite simple:

		Masculine	Feminine		
Normal state		(mār-Ø-um)	(mār-t-um	sinniš-t-um	ubān-Ø-um)
Absolute state	Sing.	mār-Ø	mār-at	sinniš-Ø	ubān-Ø
	Pl.	?	mār-ā	sinniš-ā	ubān-ā

The Predicative State

A noun in the predicative state is bound with pronominal suffixes in the nominative. The pronominal suffixes of the third person are marked (suffix Ø, and in this case the predicative state inflects for number and gender); with the other suffixes instead the predicative state is completely undifferentiated. It must be stressed that the predicative state of the feminine is unmarked even with primary nouns which are only feminine and which have the feminine marker *(a)t-* in all other states, e.g., *kall-at-um* 'daughter-in-law' occurs in the predicative state as *kall+(āku)* 'I am the daughter-in-law'. A complete inflectional differentiation may thus be noted among all states of the noun:

Normal	*nidin-t-um*
Construct I	*nidin-t-i*
Construct II	*nidin-t-a+(šu)*
Absolute	*nid[i]n-at-Ø*
Predicative + Ø	*nid[i]n-at-Ø+(Ø)*
Predicative + suffix	*nid[i]n-Ø+(āku)*

The distinction of two sets of postfixes, one marked before unmarked suffix, the other unmarked before marked suffix may seem arbitrary because the two sets are obviously in complementary distribution. This situation may best be illustrated by listing all possible combinations with pronominal suffixes:

šarr-Ø + āku	'I am a/the king/queen'
šarr-Ø + āta	'you are a/the king'
šarr-Ø + āti	'you are a/the queen'
šarr-Ø + ānū	'we are (the) kings/queens'
šarr-Ø + ātunū	'you are (the) kings'
šarr-Ø + ātinā	'you are (the) queens'
šarr-Ø + Ø	'he is (the) king'
šarr-at + Ø	'she is (the) queen'
šarr-ū + Ø	'they are (the) kings'
šarr-ā + Ø	'they are (the) queens'

Traditionally, the predicative state of the verbal adjective, in its bound form with the pronominal suffixes in the subject case, is considered a tense of the verb, and included in the verbal paradigms. This interpretation is uneconomical (because it accounts twice for the same phenomenon), and it is erroneous (because the predicative state is not restricted to the verbal adjective). The predicative state

must be considered uniformly as a special morphological realization of the predicate of a nominal sentence. Hence the terms "permansive" or "stative" may be retained to refer to a special type of nominal sentence, i.e., the bound form resulting from the combination of (any) noun in the predicative state plus the pronominal suffix of the subject.

Any noun may be inflected for the predicative state, e.g.:

Unmotivated	primary	*šarr-āku*	'I am a king/queen'
	loanword	*ṭupsarr-āku*	'I am a scribe'
Deverbal		*šarrāq-āku*	'I am a thief'
Verbal		*dam(i)q-āku*	'I am good'

In the vast majority of cases, when a verbal noun is inflected for the predicative state, it is the verbal adjective; in fact, this is so prevalent that grammars and dictionaries consider traditionally a form like *dam(i)q-āku* to be the "permansive" of the verb *damāqum*. In point of fact, the form *dam(i)q-āku* is specifically the "permansive" of the verbal adjective *dam(i)q-um*, and not generically of the verb as such.

The Verb

Person, Number and Gender
In the indicative, a set of prefixes serves as person markers, and a set of postfixes as gender and number markers (for the first person, the prefix already includes an indication of number). Traditionally, the prefixes include the first vowel of the verbal form; it seems best, however, to consider the prefix as being exclusively consonantal, because the vowel serves a stem determinant function. The imperative occurs only in the second person, hence the marker for person (prefixes) are omitted; the gender and number markers are the same postfixes as in the indicative. See Table 5.1, p. 72.

Mood
Traditionally, the term is used to refer to two quite distinct types. The first pertains to context-free categories, not conditioned by the presence or absence of other syntactic constituents in the sentence. This includes the imperative and indicative (see above),and the desiderative (see below).

Two other moods are instead context bound inasmuch as they must cooccur with, i.e., are conditioned by, other constituents. The subjunctive (as it is generally called) is the correlative of subordination, i.e., it occurs whenever a verb is introduced by a conjunction or a relative pronoun: it thus corresponds to the state and case of the noun. The allative (or ventive) is the correlative of an adjunct of motion toward a given point: it thus corresponds semantically to the separative.

The subjunctive is marked by a postfix *-u* after forms of the indicative which end in a consonant. It is the regular mood of subordinate (except conditional) and

relative clauses, e.g., *ša iprusu* 'who divided'.

The ventive or allative is characterized by a set of postfixes added to the indicative or the imperative, namely: *-am* after a radical, *-m* after +*ī*, *-nim* after +*ū* or +*ā*. The meaning is often that of direction toward the speaker, but in many cases it seems undistinguishable from the indicative. Examples: *taprus-am* 'you went toward me = you came', *taprusī-m, iprusū-nim.*

The desiderative expresses positive or negative wish on the part of the speaker, and is normally rendered in English simply by the auxiliary "may" or "let" in front of the main verb, e.g., "I wish that he may (not) go" = "may he (not) go," "let him (not) go." When the subject of the main action is of the third person, and the action is positive, the desiderative is traditionally called precative (or optative or jussive); with a first person subject and positive action, the traditional term is cohortative; with negative action and any person as subject, the traditional term is vetitive. Since precative, cohortative and vetitive are in complementary distribution, they should all be subsumed under the same category, which is here called "desiderative."

The desiderative is formed by prefixes added to the pattern of the preterite. Note that the first vowel of the pattern is omitted when the prefix ends in a vowel. This causes some differences between the desiderative and the indicative preterite, which it may be well to point out:

	B stem		D stem	
Singular	3rd	1st	3rd	1st
Indicative	*ʾiprus*	*ʾaprus*	*ʾuparris*	*ʾuparris*
Desiderative	*liprus*	*luprus*	*līparris*	*lūparris*

Positive wish for the 2nd person is not normally expressed by the desiderative. In its place one finds (with different nuances in meaning) either (1) the imperative, or (2) the independent particle *lū* followed by the present or the noun in the predicative state, e.g., *lū taḫassas* 'you should think', *lū balṭ-āta* 'may you be in good health'.

The Pronoun

While inflection proper occurs only for gender, number and case (see Tables 5.4 and 5.5, p. 84), the alternation of forms for the different persons is not inflectional; rather different word bases are used to refer to the different subjects.

The two sets of pronouns (for subject and oblique case respectively) are characterized by the following consonants:

	Set I		Set II	
Sg. 1	*k*	'I'	*y, n, ʾ*	'me'
Pl. 1	*n*	'we'	*n*	'us'
Sg./Pl. 2	*t*	'you'	*k*	'you'
Sg./Pl. 3	Ø	'he, she, they'	*š*	'him, her, them'

Table 5.4   The personal pronoun, set 1

		Nominative Independent	Suffix
Sg.	1c.	anāku	-āku
	2m.	ʾatta	-āta
	f.	ʾatti	-āti
	3m.	šū	Ø
	f.	šī	Ø
Pl.	1c.	nīnū	-ānū
	2m.	ʾattunū	-ātunū
	f.	ʾattinā	-ātinā
	3m.	šunū	Ø
	f.	šinā	Ø

Table 5.5   The personal pronoun, set 2

		Possessive and genitive Independent	Suffix	*Accusative and after preposition* Independent	Suffix
Sg.	1c.	yūm	-ma/-ya/-ī	yāti	-ni
	2m.	kūm	-ka	k(u)āti	-ka
	f.		-ki	kāti	-ki
	3m.	šūm	-šu	š(u)āti	-šu
	f.		-ša	š(i)āti	-ši
Pl.	1c.	nūm	-ni	niāti	-niāti
	2m.	?	-kunū	kunūti	-kunūti
	f.		-kinā	kināti	-kināti
	3m.	šunūm	-šunū	šunūti	-šunūti
	f.		-šinā	šināti	-šināti

Other pronouns include the following:

Interrogative	*mannum* 'who'; *mīnum* 'what'
Relative	*ša* 'who, which'; *mala* 'which'
Determinative	*ša* 'the one of'
Demonstrative	*ann-ī-um* 'this'; *ull-ī-um* 'that'
Possessive	*yūm* 'mine'; *kūm* 'yours'; *šūm* 'his'; *nūm* 'ours'

The latter two types of pronouns show occasionally /n/ as final consonant (nunation) instead of *m*.

Morphophonemics

Alternations Conditioned by Internal Inflection

Alternations Affecting Patterns
Only two alternations, particularly characteristic of Akkadian, are desribed here.
1   The conditioning factor is a root with *r* as one radical and *i* as root vowel, e.g.,
qrib as in *qerēbum* 'to approach', or *ṣhir* as in *ṣeḫērum* 'to be small'. The alterna-
tion affects all patterns containing one or more vowels *a*, which are realized with
vowel *e* instead:

{qarāb}	= *qerēb*	'approaching of'
{ṣaḫir}	= *ṣeḫir*	'he is small'
{ṣaḫir+am}	= *ṣeḫram*	'small'

Note that the morphophonemic alternation is limited to the pattern (resulting from
internal inflection) and does not extend to the accusative postfix *-am* (resulting
from external inflection), though exceptions are known, e.g.,

{ṣaḫir+āta}	= *ṣeḫrēta*	'you are small'

The existence of words such as *maḫārum* 'to receive' and *gamir* 'it is complete'
(both with root vowel *u/a*) clearly shows that the alternation {a} = /e/ is truly mor-
phophonemic; the simple presence of *r* as a radical, and even *i* as a vowel other
than root vowel (i.e. as a pattern vowel), are not sufficient to cause the alternation
automatically.
2   The conditioning factor is a root with a labial as a radical (in any position),
e.g., *pḫr* (labial in first position) as *paḫārum* 'to gather', *špr* (labial second) as in
šapārum 'to send', *rkb* (labial third) as in *rakābum* 'to ride'. The alternation af-
fects the pattern *mapras*, which, when derived from these roots, is realized as
napras, with alternation of the first consonant:

{mapḫar+um}	= *napḫarum*	'gathering'
{mašpar+t+um}	= *našpartum*	'letter'
{markab+t+um}	= *narkabtum*	'chariot'

The purely morphophonemic nature of the alternation is substantiated by the ex-
istence of words with initial *ma* which retain a labial in the remainder of the base
because they are not subject to the terms of the morphophonemic alternation as
stated, e.g., *mamītum* 'oath' (labial as first consonant after *ma*), or *madbarum*
'desert' (labial as second consonant after *ma*).

Alternations Affecting Roots and Patterns: Weak Roots
What are traditionally treated as weak roots (generally one speaks of weak verbs,

but the alternations affect nominal derivation as well) can be analyzed as morpho-phonemic alternations conditioned by internal inflection and affecting the realization of both the root and the pattern.

Weak roots may be described as having unstable radicals. Such instability affects the quality and occasionally the quantity, though never the order. For example, the first radical of the root meaning 'to bring' may occur as *w*, ˀ or length (variation as to quality) or it may not appear at all (variation as to quantity – only two radicals are left). The complete notation of the weak radical would be *w/:/ˀ/ Ø*, and the notation of the root *(w/:/ˀ/Ø)bl*, with the pertinent variations exemplified in the infinitive B *wabālum*, the perfect B *it:abal*, the infinitive Bt *ˀitbulu*, and the imperative B *(Ø)bil*.

From the fact that the first radical may be realized as length or zero it is clear that this root may not be considered as purely triconsonantal, precisely because the first radical is not consistently consonantal in nature. It is for this reason that such roots are traditionally known as "weak": they are conceived as having one radical which does not succeed, as it were, in maintaining its consonantal integrity, in contrast with the strong roots which remain triconsonantal throughout. The specific meaning which is given here to the notion of "weak radical" may be stated as "a set of alternating realizations." To indicate such sets capital letters will be used, e.g., *W* for *w/:/ˀ/Ø* (hence *Wbl*).

The possible realizations of the weak radical are only six: length, ˀ, *n*, *w*, *y*, and zero. Starting from the notion of weak radical as a set of alternating realizations, statements will be necessary to predict the manner of alternation for any given set. These statements are based on the morphophonemic environment, which may be reduced to two main types, with two subtypes each, as follows:

1	cluster	(a) radical as first element of cluster
		(b) radical as second element of cluster
2	non-cluster	(a) radical intervocalic
		(b) radical initial or final

Occasionally it will be necessary to differentiate between verbal and nominal patterns, though normally the same statements apply to both categories.

We cannot review here the details of conjugation of each class of weak verb. Suffice it to say that there is a high degree of regularity in such conjugations: even so-called "irregular" verbs such as *ˀizuzzu* and *ˀitūlu* can be considered as regular, since they can be analyzed as weak quadriradicals.

Alternations Conditioned by External Inflection
Various types of assimilation occur only at the morphemic boundary between elements of external inflection, for instance {īpuš+am+šum} = *īpušaššum* 'he did to him' but *šamš+um* 'sun' (no morphemic boundary between *m* and *š*, hence no assimilation).

A distinctive Akkadian phonotactic rule states that when, through the addition of inflectional postfixes, a sequence of three syllables results, of which the first two are short, the sequence is realized as bisyllabic without the middle vowel (alternatively, the middle vowel is syncopated). See, e.g., {damiq+um} = *damqum* 'good'; {iktašad+ūm} = *iktašdūm* 'they reached'. The rule does not apply with suffixes and enclitics, in which case the morpheme boundary is obviously of a different nature than the boundary occurring before postfixes, e.g., *šarra+kunū* 'your king' (not *šarkunū*).

Alternations affecting syllabic structure at morphemic boundary with zero occur only in the construct state. Problems arise only when a long consonant or a consonantal cluster result in word-final position. In such cases, a vowel is generally added, the quality of which is governed by rules which consider the phonological structure of the base, for instance {ṭupp + Ø šarrim} = *ṭuppi šarrim* 'the tablet of the king'. In other cases, a long consonant is shortened, e.g., {kunukk + Ø šarrim} = *kunuk šarrim* 'the seal of the king'. See Table 5.3, p. 80.

Syntax

Government

Verbal and Nominal Predicate: The "Permansive"
The predicate of a sentence may consist of either a verb phrase or a noun phrase. The difference between the two is primarily that the verbal predicate refers to an action, and is temporally determined according to tense inflection, whereas the nominal predicate refers to a state or condition, and can be determined temporally only by means of adverbs.

Traditionally, the predicative state of the noun is considered separately from the other nominal predicates. In fact, most Akkadian grammars today do not even recognize the existence of a predicative state as part of nominal inflection; rather they consider predicative state and subject pronominal suffixes as one unit, which is called "permansive" (also "stative") and subsumed under the forms of the verb. As a result, *šarrāta* 'you are king' is completely separated from *atta šarrum dannum* 'you are a powerful king'. Syntactically, however, they serve the same function and should be considered together.

Predicate and Complements
Complements are all adverbial, i.e., they occur regularly in a verb phrase, in that they serve to "complete" the process described by the verb. In the terminology adopted here, a complement differs from an adjunct in that it is an essential, or nuclear, part of phrase, in contradistinction from an adjunct, which is non-essential. Complements consist of either noun phrases or subordinate clauses.

The direct object occurs regularly in the accusative, unless it is invariable. Of the transitive verbal nouns, participle and infinitive do not as a rule occur as pred-

icates; hence their occurrence is treated below in connection with the nominalizing transformation.

The verbal adjective of transitive roots, on the other hand, occurs regularly as the predicate, and in that case it often governs the direct object, although it occurs even more frequently without direct object and then normally with a passive function. The direct object is always in the accusative, e.g., *tertam ṣabit* 'he holds office'.

When the context does not allow the use of a substantive or a pronoun as single complement, the latter is expressed by means of a noun of description derived from the same root of the verb. This is normally expressed in English by an indefinite pronoun, which serves the same purpose of what has been called a "dummy object." See for example *ḫubtam aḫbut* 'I stole something' (lit. 'a stealing'). Since the same root of the predicate is used for the object, this is traditionally called the paronomastic, cognate or internal accusative.

The complement of a transitive verb may be expressed twice, the second time in the form of a personal pronominal suffix appended to the verb. The use of the resumptive pronoun seems to be a matter of free variation, conditioned at most by stylistic emphasis or the need for better clarification of the relationships among the constituents. See, for example, *dayyānam šuāti ina dīn idīnu enēm ukannūšu* 'that judge they will convict him for having changed the verdict he had given'.

The place of the direct object may be taken by a clause, called the "objective clause." Such clauses are introduced by the conjunction *kīma* 'that' in Old Babylonian, and *kī* 'that' in Middle and Neo-Babylonian. Negation is regularly *lā* and the verb in the subjunctive. See for example *Nidnat-Sīn ... kīma puḫādi nēmettaka ana ekallim lā tublam iqbiam* 'Nidnat-Sīn ... said to me that you have not yet brought to the palace the lambs which represent your tax'.

Predicate and Adjuncts
From a formal point of view, or in terms of surface structure, three categories may be distinguished. The first two may be called analytic, and consist of either prepositional phrases (i.e., a preposition plus a noun in the genitive) or subordinate clauses (i.e., a conjunction plus a sentence). The third category may be called synthetic, in that the adverbial nature of the construction is expressed purely by inflectional means, without prepositions. The relevant markers of the synthetic adjuncts are:

1   the accusative singular (*-am*), as in *ūmam* 'today';
2   the locative (*-ūm*) as in *warkānūm* 'afterwards' or in the "absolute infinitive";
3   the terminative (*-iš*), occasionally combined with the accusative (*-iš-am*), as in *šapliš* 'below' or *šattišam* 'yearly';
4   the modal (*-ī*), as in *amšalī* 'yesterday';
5   the absolute state, as in *kayyān* 'constantly'.

More than one adjunct may occur in any sentence, and an adjunct in the accusative may occur in the same sentence next to the direct object complement, also in the accusative. This gives rise to the so-called double accusative, where it must be noted, however, that similarity in the inflection is only one of surface, and does not reflect identity of structure at a deeper level. Thus in the sentence *ṣubāta qaqqad-ka kuttim* 'cover your head by means of a cloth' only the second accusative (*qaqqad* 'head') is a complement, while the first one (*ṣubāta* 'cloth') is a non-essential adjunct.

While it seems possible that adjuncts of all notional categories could have been expressed both analytically (prepositional phrases) and synthetically (noun phrases), in fact the first type is the most common, and the only one of the two attested for all notional categories.

The place of an adjunct may also be taken by a subordinate clause, which is regularly introduced by a conjunction, and is further characterized by the predicate in the subjunctive and the negative particle *lā* (rather than *ul*). The notional content of the clause is partly determined by the conjunction, though some of them are ambiguous as to their meaning.

Word Order

Absolute Positions
The only instances where contact sequences between constituents may clearly be established are when either the subject or the complement or, more rarely, the adjunct consist of suffixes: then they always follow the predicate, and are in close juncture with it. Examples:

Subject	*šarr-āku*	'I am king'
Direct object	*āmur-šu*	'I saw him'
Indirect object	*addin-šum*	'I gave to him'
Adjunct	*ēkim-šu*	'I took away from him'

Two complements may both occur together as suffixes, in which case the indirect object precedes the direct object, e.g.

addin-šuš-šu   'I gave it to him'

The only other instance, outside of suffixation, in which a contact sequence seems to obtain is between subject and predicate when the subject is an interrogative pronoun and the predicate a nominal predicate. See for instance:

Ina Bābilim ana dummuqīkunū mīnu ḫištakunū?
'What is your reward in Babylon for your good behavior?'

In discontinuous sequences, i.e., sequences in which no contact is required

between constituents, rules can be established only for sentence- and clause-final and initial position. These position rules apply whether the sequence is a sentence or a clause.

Two elements only are normally found in sentence- or clause-final position.

1   The subject is sentence final when it is an independent personal pronoun and the predicate is nominal. (Note the close parallelism with the contact sequence found in the stative.) Examples are:

Ina Bābilim warad ekallim anāku
'In Babylon I was a servant of the palace.'

kī yatīma atta
'You are like me.'

Note that *-ma* in the latter example indicates clearly that *kī yati* is the predicate. Clear exceptions (identifiable because of the *-ma* after the predicate) are not frequent, e.g.

anāku wēdišīyāma 'I am all alone.'

2   In all other cases, and that means in the vast majority of the cases, sentence-final position is normally occupied by the predicate, be it verbal, be it nominal, e.g.:

Verbal predicate	*šarrum illik*	'The king went.'
Nominal predicate	*bītum annūm bīt-ka*	'This house is your house.'

Exceptions are not infrequent, especially in poetry and political literature (royal inscriptions). They seem to occur mostly for euphonic and stylistic reasons, and may be divided in two groups accordingly:

(a)   The predicate occurs in penultimate rather than final position in order for the sentence to end with a syllabic sequence consisting of long and short syllables "trochaic clause"), which is a preferred prosodic feature for sentence-final position, e.g.: *išpura rakbūšu* 'he sent his messengers'.

With the predicate in final position, the sentence would end with a dactyl rather than a trochee: *rakbūšu išpura*.

Often, however, the inversion occurs even without any effect on prosody, and one may perhaps conclude that, especially in political literature, a new sentence-final position had become acceptable, namely the sequence predicate–direct object, at least when the direct object consists of a single word ending in a trochee, e.g. *uṣaḫḫir massu* 'I reduced his country.'

(b)   Another common exception to the rule which places the predicate in sentence-final position is to emphasize the predicate by inverting the order of constituents, especially by placing the predicate in initial position. This occurs in initial position, e.g.:

ana nawēm ša Ḫana ... šulmum
'There is peace in the encampment of the Ḫaneans,'
'As for the encampment of the Ḫaneans, it's at peace.'

Two elements can occur only in clause-initial position, namely conjunctions and relative pronouns; they are also mutually exclusive, as they can never occur together in the same clause.

Similarly, the subject, object or adjunct of a non-pronominal attributive clause can only occur in clause-initial position when they are the same as the head from which the attributive clause depends (see p. 93).

Exceptions are rare, e.g.:

PN *išti* PN₂ *šumma ittāmar*
'If PN is seen with PN₂'

Relative Positions
No clear role may be formulated for relative sequence of constituents, i.e., no rank may be assigned the constituents of a sentence (unlike the case with the constituents of a phrase resulting from the nominalizing transformation, see p. 93). Certain trends, however, may be pointed out, the validity of which still needs to be tested statistically on a representative body of texts. The trends may be stated as follows:

1   the subject tends to occur before the direct object, e.g.:
    šumma dayyānum dīnam idīn 'if the judge has issued a verdict';
2   the direct object tends to occur before the indirect object:
    ūmam ana mūšim lītēr 'may he turn day into night';
3   the major emphasis tends to fall on the element which is farther away from the predicate toward the beginning of the clause, e.g.:

    ana warkat ūmī, ana matīma (adjuncts of time)
    šarrum, ša ina mātim ibbaššū (subject + attributive clause)
    awāt mīšarim, ša ina nāriya ašṭuru (object + attributive clause)
    liṣṣur (predicate)
    'In the future, forever,
    the king who will be in the land
    the words of justice, which I wrote on my stela,
    let him keep.'

Feature Analysis
Of particular interest are two lexical features pertaining to the verb. They are:

⟨action⟩
$\begin{cases} + \\ - \text{⟨condition⟩} \end{cases}$
alāku 'to go', *ṣabātu* 'to seize'
damāqu 'to be good' = ⟨intransitivity⟩

⟨transitivity⟩
$\begin{cases} + \\ - \text{⟨intransitivity⟩} \end{cases}$
ṣabātu = ⟨action⟩
damāqu, alāku

The adjective which is commonly used in Akkadian grammar to refer to ⟨+action⟩ is "fientive," while the adjective referring to ⟨–action⟩ is "stative" (not to be confused with the "stative" or "permansive" as a special type of nominal sentence).

The distinction between verbs of action and verbs of condition, which is essential for Akkadian, is borne out especially by the following considerations:

1   Verbs of condition do not occur as imperatives. See for example the following contrasting pair:
   ⟨+action⟩ : *ilik* 'go'
   ⟨–action⟩ : **dimiq*.
2   Verbs of condition occur in finite forms with an ingressive aspect only:
   ⟨+action⟩ : *illak* 'he goes'
   ⟨–action⟩ : *idammiq* 'he becomes good' vs. *damiq* 'he is good'.
3   The causative transformation operates differently with verbs of action and verbs of condition.

Nominalization

Relative Clauses
Relativization is the more common type of nominalization with finite verb. A relative clause is introduced by the pronoun *ša*, which may be resumed by a personal pronoun when the relative pronoun corresponds to the object, and must be so resumed when it corresponds to a genitive or dative:

ša (nom.)	*ṭuppam išpuru* '(the man) who sent a tablet'
ša (acc.)	*šarrum išpuru-(šu)* 'whom the king sent'
ša (dat.)	*šarrum bītam iddinušum* 'to whom the king gave a house'
ša (gen.)	*mārūšu ṭuppam išpurū* 'whose sons sent the tablet'
ša (gen.)	*ina bītišu uššabu* 'in whose house I dwell'

In all cases the predicate is placed in the subjunctive. With the desiderative, which morphologically does not allow a subjunctive, a construction with *ša* and the genitive of the infinitive is used instead:

lišpur	'he ought to send'
ša šapārim	'which he ought to send' (**lišpuru* is impossible)

When the relative clause is restrictive, the relative pronoun is normally deleted and the noun to which the relative pronoun refers is placed in the construct state. Deletion of the pronoun is only possible when the predicate is verbal, but (unlike English) it may occur with all cases:

awīl ṭuppam išpuru	'the man who sent the tablet'
awīl šarrum išpuru	'the man the king sent'
awīl šarrum bītam iddinušum	'the man to whom the king gave a house'

Subjective and Objective Genitive

Any verbal predicate (whether stative, transitive or intransitive) and its relative subject may be nominalized by transforming the predicate or the complement into a corresponding noun of description, in the construct state, and the subject into a dependent genitive.

Stative verb	*šū dan* 'he is powerful' ~ *dunnašu* 'his strength'
Intransitive verb	*šū illik* 'he went' ~ *alakšu* 'his going'
Transitive verb	*šū inaṣṣar* 'he watches' ~ *maṣṣartašu* 'his watch'
Complement	*šarrum qištam (iddin)* 'the king (gave) a gift' ~
	qišti šarrim 'the gift of the king'

A transitive predicate may occur nominalized in the construct state followed by the genitive of the complement:

qištam iddin	'he gave a gift'	~ *nādin qištim* 'the giver of the gift' or
		~ *nidinti qištim* 'the giving of the gift'

Attribute and "Attributive" Genitive

A predicate consisting of a verb of condition is nominalized by transforming the finite predicate into a verbal adjective, which is then in concord with the subject of the kernel sentence and functions as an attribute proper:

šarrum dan 'the king is powerful' ~ *šarrum dannum* 'the powerful king'

A very frequent expression in Akkadian, as in other Semitic languages, is the so-called "attributive genitive", e.g.: *āl dannūti* 'city of strength' or 'strong city'. The attributive value, however, is inferred intuitively from the translation into modern languages and cannot properly be derived from linguistic analysis. In the specific example quoted, the verb *danānu* cannot be predicated of the subject *ālu*, since the correlative lexical feature for the subject is ⟨+animate⟩. In such constructions, then, the noun in the construct does not correspond to the subject of an underlying sentence such as "the city is strong," but rather to the adjunct of a sentence with a deleted subject, such as "in the city (people) are strong."

The so-called "attributive" genitive is especially frequent with abstracts derived from primary nouns, e.g.: *šubat ilūti* 'the dwelling of divinity', i.e., 'divine dwelling'. Here too the construct is not equated with the quality of the genitive (it is not that 'the dwelling is god' or even 'godlike'), but rather it is the adjunct of a sentence of which one may understand "gods" to be the subject: 'dwelling in which

the gods (may dwell)'. This construction appears at first to be especially suited for a qualification as "attributive" because adjectives from primary nouns are not productive (for example, there is no adjective *il-ī-u, and il-ān-ī-u has the special meaning 'blessed by god, prosperous'); in fact, however, it has a potential value: 'the city in which one may feel secure', 'dwelling where the gods may reside'.

Limitative, Partitive, Superlative

A transformational analysis of the nominalized construction ṣalmāt qaqqadim 'the black (ones) of head' presupposes an underlying sentence such as "the people are black as to the head." This is generally called a "genitive of relation," but it seems more appropriate to call it a genitive of limitation, since it limits the range of effectiveness of the predicate. Other examples are:

> damqam īnim 'good of eyes' (with the unusual construct state in -am)
> kabit kaspim 'heavy in silver'

A special type corresponds to the use of a paronomastic infinitive in the kernel sentence, e.g., le'ū le'ūti 'strong of strength' (corresponding to le'ūm le'ī 'in being strong he is strong').

Conjunction

Reversible Sequences

Only two types of conjoined sentences may be recognized as reversible in terms of surface structure, i.e., by means of specific markers. The first type includes the disjunctive sentences, i.e., sentences which are notionally mutually exclusive. They are characterized formally either by the particle ū 'or' occurring between the two sentences, or by the particles lū ... lū, šumma ... šumma 'whether ... or', either ... or', with one particle occurring in front of either sentence. Sentences of this type, namely īkul ū išti 'he ate or drank' = ištī ū īkul 'he drank or ate' are always reversible. Examples are:

ū	šumma sābitum ana šīm šikarim še'am lā imtaḥar,
	ina abnim rabītim kaspam imtaḥar,
	ū maḥīr šikarim ana maḥīr še'im umtaṭī ...
	'If an innkeeper has not received barley in payment for beer and has received instead silver by the heavy weight, or if she has reduced the value of beer in relation to the value of barley ...'.
ū lū	šumma ... eqlam Adad irtaḥiṣ
	ū lū bibbulum itbal
	'If either Adad has flooded the field or a flood has carried it away ...'.

šumma   šumma kisām ilqī-ma ittalak,
            šumma maḫrīkum ...
            'Whether he took the purse and went away, or whether he is still with
            you ...'.

Direct speech and the sentence introducing it may be considered as conjoined
sentences. They are normally reversible, and characterized by special markers
which occur with the first sentence. The markers vary depending on whether the
sentence introducing direct speech or the direct speech itself comes first. If direct
speech is first, then the suffix *-mi* is added, optionally, to one of the constituents
of direct speech (occasionally more than once if direct speech includes in turn sev-
eral sentences):

nādinānum-mi iddinam, maḫar šībī-mi ašām iqtabī
'"A seller gave to me, I bought (it) in front of a witness" he has said.'

If the introductory sentence comes first, then the particle *umma* begins the sen-
tence, and the suffix *-ma* is added to the subject of the introductory sentence:

umma Ḥammurapī-ma rabiān Medēm aššum ḫibiltīšu ulammidanni
'Thus (said) Ḥammurapi: the mayor of Medūm has informed me about his loss.'

This is the standard form in letters (as in the previous example), in which case
the entire letter may be considered as a single direct speech.

Irreversible Sequences
Of the two sentences constituting an irreversible sequence, only one may be intro-
duced by a conjunctive particle. The two possible subtypes are thus characterized
according to whether the particle precedes the first or the second sentence.
1   A sentence introduced by *šumma* 'if' occurs regularly first in a conjoined
transform. This first sentence is known as protasis, while the second is known as
apodosis, e.g.:

protasis: *šumma awīlum šinni awīlim meḫrīšu ittadī*
apodosis: *šinnašu inaddū*
'If a man knocks out the tooth of a man who is his peer,
they will knock out his tooth.'

The protasis and apodosis are properly two conjoined sentences rather than a
subordinate and main sentence: the protasis, in fact, does not correspond to any
other constituent of the sentence, such as complement and adjunct, or of the
phrase, such as attribute. It is rather an irreducible sentence which may only be
analyzed as the result of a conjoining transformation, which combines two sepa-
rate sentences.

Negation in the protasis occurs with the particle *lā* as with subordinate clauses, rather than *ul* as with main sentences:

šumma nukaribbum eqlam ina zāqāpim lā igmur
'If a gardener has not finished planting a field'

Only seldom is the negation *ul* employed, and then in a potential sense, apparently to reduce the strength of negation when the speaker hopes that the negative hypothesis may not come true:

šumma GN ul ikšudū ṭuppam lišakšidū-šu
'Should they not (be able to) reach GN (as I hope they will) one should have (at least) the letter reach him.'

2   A typical Akkadian construction (generally called "virtual subordination") uses the particle *-ma* suffixed to the predicate of the first sentence. Many notional ranges may be expressed by this construction.

Deletion

Subject
The subject is often deleted when it can easily be resupplied on the basis of the context. It must be noted, however, that the subject is always implicitly present in a verbal predicate, since indication of the subject is included in the inflection markers for person (historically connected with pronominal subject markers). With a nominal predicate the subject may only be deleted if it is of the third person (and then again, the subject must be known from the context). See for instance:

nukurtum-ma   '(it) is a case of hostility'
ana bēlišu-ma   '(the loss) is of its owner'

The subject is normally deleted with the imperative, since a command is as a rule addressed to a person immediately present to the speaker; if the subject is retained for emphasis, it may be considered in the vocative:

attunū ... ana Bābilim alkā 'You, leave for Babylon!'

For examples of subject deletion with the indicative one may quote instances in which the topic of discussion is known from previous sentences within the same discourse and is not repeated, not even in pronominal form (square brackets indicate deletion):

Anumma Sīn-ayyabāš, ištēn guzalām u šatammī ... uwaʾʾeram ...
Inūma [Sīn-ayyabāš, guzalūm u šatammū] issanqūnikkum,
ittišunū alik.

'Now I have sent S., one servant and the managers.
When [S., one servant and the managers] come to you,
go with them.'

Similarly the subject may be deleted when an adjunct clause has the same subject as the main clause in which it is embedded, in which case deletion affects normally the subject not of the first, but of the subsequent sentence:

deletion:	*inūma aḫḫū izuzzū*
	ina makkūr bīt abim ana aḫīšunū ṣeḫrim ...
	kasap terḫatim [aḫḫū] išakkanūšum
	'When the brothers divide (the inheritance),
	they will set aside the bride price from the
	family estate for their younger brother."
no deletion:	*ištu bēlī ... lā iddinam*
	bēlī ... liddinam
	'Since my lord did not give (before),
	let my lord give (now).'

A special case of subject deletion is found with the "impersonal" predicate, i.e., a predicate in the third plural with generic subject, normally translated in English with "one" and the third singular, e.g.

iqabbū ... 'on says (that) ...'

Complement
Deletion of single complement is less frequent than subject deletion, but is similarly conditioned by contextual environment; if not repeated literally, the object is normally present at least in the form of a pronominal suffix. (Object deletion is more frequent on the level of the nominalizing and conjoining transforms, for which see p. 98.)

A special case of object deletion is what is known as "lexical" deletion, i.e., a deletion which occurs regardless of context and only with reference to a specific object which is assumed to be generally known. Thus for example *šaqālum* 'to weigh' has become lexicalized with meaning 'to pay' whether or not it governs an object such as *kaspam* 'silver'.

Predicate
Deletion of predicate is very rare, and is always conditioned by a clear contextual situation. See for instance how in the following sentence the predicate is to be supplied from the previous sentence:

... *mimmāšu ḫalqam irīabbū-šum.*
Šumma napištum [ḫalqat]
ālum u rabiānum 1 mana kaspam ... išaqqalū
'Whatever was lost they will return to him.
If a life (was lost),
the city and the mayor will pay one mina of silver.'

Only in one instance is the deletion of the predicate regular, namely in the introductory sentence in front of direct speech, where the standard formula calls only for the name of the speaker, with regular deletion of a verb for saying or speaking:

umma Ḫammurapī-ma [iqbī]
'Thus Ḫammurapi spoke, said.'

Noun Phrase
One of the three major constituents is always deleted as the result of nominalization, since only two constituents may appear in any given transform.

In some cases more than one constituent may be deleted, sometimes as the result of a lexical deletion, e.g., *nādinānum* 'seller' (without specific reference to what is being sold).

While all other deletions do not entail any other transformation in the sentence besides deletion itself, pronoun deletion with attributive clauses also transforms the head of the attributive clause from the normal into the construct state, e.g.:

awātum ša iqbū ul uktīn
'The word which he spoke he did not confirm.'
awāt iqbū ul uktīn
'The word he spoke he did not confirm.'

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6 Amorite and Eblaite

Cyrus H. Gordon

Amorite is (literally) the language of Amurru, which in Akkadian means 'the west'. The infiltration of Amorites into Babylonia and other parts of Mesopotamia started before 2000 BCE. During the early centuries of the second millennium, Amorite dynasties were entrenched all through the land, from Babylonia in the south to Assyria in the north, and in between, notably at Mari on the Middle Euphrates.

The classical stage of Akkadian is the Old Babylonian written during the First Dynasty of Babylon, which is the Amorite dynasty whose most famous monarch was Ḥammurapī. His Law Code is carefully couched in the most regular, consistent and precise morphology and syntax known to us in the three millennia of Akkadian scribalism. The language and especially the proper names in the tablets written during the First Dynasty of Babylon, reflect Amorite innovations. It is from those new factors that we reconstruct what we can of the Amorite language, for there are no texts written in Amorite. That something substantial can be reconstructed is due mainly to the nature of Amorite personal names, which are often in the form of whole sentences. The main source of Amorite personal names is from Mari and has been collected by Huffmon (1965). Additional primary evidence has been published by Gelb (1980) and Zadok (1993), but much of it has been dubiously classified as Amorite.

The most confusing part of Amorite studies is the wide range of applications of the terms Amurru and Amorite in the ancient sources. For example, in the Ugaritic and Amarna tablets of the fourteenth century BCE, there is mentioned a small but active kingdom in Lebanon called Amurru. The names of its leaders are quite different from those in Mesopotamia during the First Dynasty of Babylon. The Old Testament refers to Canaan as the Land of the Amorites; and Abraham (in Genesis 14) forms a military coalition with three Amorite brothers named Mamre, Eshkol and Aner. No ethnic or linguistic connection has been established between the Mesopotamian Amorites in the first half of the second millennium and the Amorites in Canaan during the second half of the second millennium. The different locations and identities of "Amurru" and "Amorite" in the ancient sources are treated fully in Haldar (1971).

Eblaite designates the language of the largest archives known from anywhere in the world during the Early Bronze Age (3000–2000 BCE). The inscriptions of

the Ebla Archives already unearthed number about 15,000; many on large well-preserved clay tablets. They have been excavated by an Italian expedition at the ancient site of Ebla, a little over thirty miles south of Aleppo, Syria. The Archives were written during a period of only half a century, from around 2300 to 2250 BCE.

Eblaite is a Semitic language embodying East and West Semitic features. Texts in the same language have been found at Mesopotamian sites such as Mari, Tell Abu-Ṣalābīḫ and Kish. Eblaite is essentially a written lingua franca used by scribes, merchants and diplomats. It was not limited to Ebla, nor was it the spoken language of Ebla. Scribes, and some of their employers, could probably converse in it, but it is most unlikely that the scribes, merchants, diplomats or anyone else spoke Eblaite at home.

The Eblaite texts are written in the cuneiform system of Mesopotamia, developed by the Sumerians and adopted by the Semitic Akkadians. The system has ideograms in addition to syllabic signs. It also employs determinatives to fix the semantic category of a word. So many Sumerograms are used that it is often possible for an Assyriologist to sense the meaning of a passage, or even of an entire tablet, without knowing how to pronounce it in Eblaite. The ends of words are sometimes added syllabically to the Sumerograms so that we can deduce the case endings of nouns and the modal suffixes of verbs, as well as the suffixed personal pronouns and conjugational suffixes. Particles (conjunctions, prepositions and the like) are often spelled out phonetically. There are also extensive bilingual school-texts (Pettinato 1982) giving us the Eblaite translations of Sumerograms. However, much of that vocabulary is highly specialized and not as applicable as we might wish to the other tablets found by the excavators.

In the Ebla Archives, the Sumerograms do not follow Sumerian word order, but instead are placed in accordance with the rules of Eblaite syntax. We can thus learn much about Eblaite phrase and sentence structure even when we cannot pronounce the Eblaite words for which the Sumerograms stand.

The reconstruction of Eblaite does not involve the decipherment of a script, nor essentially the interpretation of the texts. It is rather the extracting, analyzing, classifying and assembling of seemingly endless linguistic details with the aim of enabling us to compose a grammar and glossary of the Eblaite language. For the ongoing process, see Archi 1987; Cagni 1981; Diakonoff 1990; and Gordon 1987, 1990, 1992.

Both Amorite and Eblaite are written in the Mesopotamian cuneiform system, which was not designed for, and hence is not well suited for, recording Semitic languages. In spite of nearly a century and a half of linguistic scholarship devoted to Akkadian, many details of the phonology remain controversial. The script is characterized by the two opposing (and confusing) principles of polyphony and homophony. Polyphony means that a sign may have several (often many) different phonetic values; e.g., there is a common sign that is to be pronounced *ur*, or *taš*, or *lik* (along with several other values) depending on context. Homophony means that the same sound may be represented by several (often many) entirely different signs.

When whole phonetically spelled Amorite and Eblaite texts do come to light, no seasoned Semitist should experience insuperable trouble in reading, translating and describing them linguistically in detail. This will be the case no matter whether the script is syllabic or alphabetic. Our present obstacles are simply that there are neither any Amorite texts at all, nor any Eblaite prose or poetic literature spelled out phonetically, without a plethora of Sumerograms and proper names. Names are often unconnected with the language of the people who bear them. My name (Cyrus) is Persian and my wife's name (Constance) is Latin (Constantia). Neither of us is Iranian or Italic and our language is English.

Amorite

Phonology

Consonants
The Semitic repertoire of consonants is almost covered by the Arabic alphabet of twenty-eight consonantal letters. The only additional one is *ś* which is preserved in Masoretic Hebrew and South Arabian. The trend is for certain consonants to merge, like *ʿayin* and *ɣayin* (which fall together as *ʿayin* in Hebrew and Aramaic) or *ḥ* and *ḫ* (which fall together as *ḥ* in those languages. The problem in Amorite is that consonants which did not merge phonetically (such as *h*, *ḥ* and *ʿ*), can fall together orthographically because of polyphony in the Mesopotamian syllabary; e.g., the personal name (PN) *Na-aḫ-ma-nu* can stand for either *Naʿman* ('Naaman') or *Naḥman*. The word for "sun" is *šams-u* in Arabic, *šemeš* in Hebrew (= *šamš-u* in Akkadian) but it is spelled *sa-am-su* (as in the PN *Sa-am-su-i-lu-na*, meaning 'The Sun is Our God'). Since the syllabary differentiates *sa* from *ša* and *su* from *šu*, we conclude that the Amorite word for "sun" is *samsu*.

Amorite has the Northwest Semitic shift of initial *w-* to *y-*. The divine name (DN) Yaddu/Yandu may be derived from **wdd > ydd* 'love'. It appears in the PN *Ḫa-ab-du-Ya-an-du* (var. *Ab-du-Ya-an-du/Ab-di-ya-du*) /ʿabdu-Y/ 'Servant-of-Y.' The DN Yaddu appears syllabically at Ugarit: *ᵐYa-du-ᵈAddu* in which Yaddu is combined with the storm god's name.

The phoneme *ḍ* is preserved unchanged in classical Arabic and Ethiopic, but is modified elsewhere. In Old Aramaic it becomes *q* and in Standard Aramaic, *ʿ*. In Akkadian, Canaanite, and Ugaritic, it is *ṣ*. The root **rḍw* 'to be content, pleased' is well attested in PNs. The Amorite name *Ra-ṣa-ᵈDa-gan* 'Dagan is content, pleased' was given to the child whose birth shows that the vows of the parent(s) and their gifts to Dagan have pleased the god.

Vocalic variability is especially clear in variant spellings of the same person's name: *Sa-mu-A-bi-im/Su-mu-A-bu-um*. The different case endings suggest that *Sa-mu-A-bi-im* means 'Father's Name' while *Su-mu-A-bu-um* means 'The (deified) Name is the Father'. In any event, 'Samuel' (with *a*, as in the Greek Septuagint) preserves the *a*. The primitive Semitic word, which Arabic preserves in

sandhi, is -*sm*-. When the word is not joined, it appears as *ismu* in Arabic, as *šum* in Akkadian and Aramaic, and in Hebrew as *ši/em* (in a closed unaccented syllable) or *šēm* (if accented).

The PN *A-du-na-im* (*ʾadōn-naʿīm* 'The Lord is Good') reflects the Canaanite shift *ā > ō*, which takes place often, but selectively, in Hebrew. It occurs in most nouns (e.g., Hebrew *ḥămôr* vs. Aramaic *ḥmār*, Arabic *ḥimār* 'ass') and adjectives (e.g., Hebrew *ṭôv* vs. Akkadian/Aramaic *ṭāb* 'good') but not in *nomina agentis* of the *qattāl* and *qātōl* formations, nor in the participles and perfects of hollow verbs (e.g., Hebrew *qâm* which serves as both perfect 'he arose' and sg. m. participle 'rising').

Barth's Law of vocalic sequence in verbs (where *yaqtal shifts to *yiqtal*, as against *yaqtul which remains unchanged) is not operative in Amorite. In PNs (such as *Ya-aś-ma-ah* + DN), while the verb could be Yaśmaḫ 'rejoices', it is probably Yasmaʿ 'listens'; i.e., the god has listened to our prayers and given us the child. Here Amorite goes with classical Arabic, against Northwest Semitic (Hebrew, Ugaritic, Aramaic, etc.).

Morphology
The independent pronoun, sg. 1c., can be expressed by *ʾanā* 'I' as in Arabic = *ʾnā* in Aramaic. 'I' in Eblaite is written *a-na* or *an-na* and was probably pronounced *ʾanna* in accordance with the rules of normal orthography (to wit, a singly written consonant can represent a phonetically single or doubled consonant, whereas a doubly written consonant represents a phonetically doubled consonant).

The construct singular of the uniconsonantal noun *p*- 'mouth' ends in a long vowel; nominative -*ū* occurs in the PN *Pu-ú-*^d*Da-gan* meaning that the child was born through 'the word/command/mouth of Dagan'.

The sg. f. absolute ends in -*ā*; e.g., the f. PN *Ṭá-a-bā*. Side by side in Amorite we find the form with the f. -*t* preserved by the case ending (as in Akkadian/Arabic): *Ṭá-ba-tum*.

The PNs *Mu-tu-*^dIM and *Mu-tu-*^d*Da-gan* mean 'The Man of (the respective) God'. The noun *mut*- 'man, husband' is familiar from Akkadian. However, such PNs do not establish *mut*- as the normal word for 'man' in Amorite any more than the Hebrew PN *Mĕtū-šā-ʾēl* 'Man-of-God' establishes it for Hebrew. In Hebrew *mĕtê-mispār* 'men of number = a few men' occurs as a rare archaism, but it in no way rivals *ʾîš* as the common word for 'man' nor even *ʾĕnôš* or *ʾādām* as less common synonyms.

Ya-we-AN corresponds to the Hebrew PN *Yôʾēl* 'Joel' in which are combined *Yw* = *yô* (an old form of *Yhwh* /Yahwe/) and *ʾl* = *ʾēl* 'God' (specifically the head of the pantheon).

The conjugations of the verb are familiar from other ancient Semitic languages. For example, forms of the simple (G) conjugation of *šwb* (< *θwb) 'to return, come back' occur in the PNs: *Šu-ub-*^dIM 'Return, O Addu!' (with the sg. m. imperative *šub*) and *Ya-šu-ub*-AN = *Yašūb-ʾIlu* 'El returns (through the birth of this son)' (with the sg. 3m. imperfect *yašūb*).

The Gt conjugation appears in PNs such as *Ya-an-ta-qi-im* (from *nqm* 'to avenge'). 'Avenger' = nominalized sg. 3m. imperfect. A sg. 3f. Gt imperfect appears in the PN *Ta-aḫ-ta-mar*.

Of special interest is the Amorite PN *Ḫa-am-mi-is-ta-mar* = 'Ammistamar because it is also the name borne by kings of Ugarit, where it is written both alphabetically (*ʿmθtmr*) and syllabically (*ᵐA-mis-tam-ru*). The first element is theophoric = the deified *ʿAmm-* 'paternal uncle'. The verb is the Gt of *θmr* 'to be fruitful'. The name means that 'Amm has been fruitful in bestowing the son who bears this PN.

The local adverb of interrogation, *ʾayya*, occurs in PNs that express concern for a missing god. Such names were appropriate when the birth was saddened by troubles. Examples: *A-ya-Da-du/Ḫa-la/Ḫa-mu-ú* 'Where is Daddu/Ḫala/ 'Ammu?'. Enclitic *-ma* can be suffixed to *ʾayya*: *A-ya-ma-*AN 'Where is El?'.

Syntax

The verb normally precedes the subject; e.g., the PN *Ḫa-ya-Su-mu-ú-A-bi-im* 'Father's name lives' or simply *Ḫa-a-ya-A-bu-um* 'Father lives (on through the son who bears his name)'. The verbal root is *ḥyy*.

In Amorite PNs, *e-pu-uḫ* (var. *ya-pu-uḫ*) can be the theophoric subject. The root, **wpʿ*, is known from the Hebrew hiphil *hôfīăʿ* 'to appear (in splendor)' and Akkadian Š 'to cause something to appear brilliantly'. The verbal form is nominalized into the DN *ᵈI-pu-uḫ* in the PN *Ya-šu-ub-ᵈI-pu-uḫ* meaning 'I/E-*pu-uḫ* has returned' (signifying that the benevolent god, who had been missing, has come back). The final consonant is correctly and unambiguously rendered alphabetically in Ugaritic *Nqmpʿ*; usually spelled *Ni-iq-me-pa* syllabically in Akkadian tablets from Ugarit, but also once *Ni-iq-me-pu*.

Some PNs consist of simple coordination. Thus *Ḫa-bi-ᵈ*IM 'Ḫaby + Addu'. *Ḫaby* is the arch-demon of evil and is described in Ugaritic as possessing horns and tail – prefiguring the modern iconography of Satan. The propitiation of the forces of evil is common in ancient Near East religion, as evidenced by the frequency of Nergal/Reshef/Rasap in Akkadian, Amorite and Eblaite PNs. *Ya-we-ᵈ*IM (= Addu) is the same type of name, which however invokes a good, creative deity instead of the deified forces of death, sickness and misfortune.

Eblaite

Phonology

The Eblaite system of writing is inherited from Sumerian proto-writing of Early Dynastic II. Semitic phonology includes a threefold repertoire of dental and palatal stops, and sibilants; namely surd (voiceless), sonant (voiced) and emphatic. Thus we find *t/d/ṭ*, *k/g/q* and *s/z/ṣ*. Sumerian lacks the emphatic; so that *da* covers *da* and *ṭa*, *ga* covers *ga* and *qa*, and *za* covers *za* and *ṣa*. However in Eblaite all three grades are lumped together so that DA covers *ta/da/ṭa*, GU covers *ku/gu/qu*

and SA covers *sa/za/ṣa*. Neither the doubling of consonants nor the length of vowels is normally indicated. It follows that normalization and etymology cannot be ascertained mechanically. The process requires an extensive and systematic knowledge of the Semitic languages.

In the bilinguals ŠU-TUR (lit. 'little hand') designates 'finger' and its Eblaite form corresponds to the Common Semitic word that appears as *'eṣbaʿ* 'finger, toe' in Hebrew. The Eblaite is written two ways: *i-sa-ba-um* TUR and *iš-ba-um* TUR. Note the open syllable spelling with *sa* for vowelless *s* in the first form and the *š* for *s* in the second form. Eblaite is often written in open syllable orthography (like Linear A and B, or Japanese). A word beginning *'aṣmi-* is spelled *a-za-mi-* or *a-zi-me-*; note that the vowelless *s* is written either *za*, reflecting the vowel of the preceding syllable or *zi*, reflecting the *i* of the following syllable. This open syllable orthography gives the illusion that there are no closed syllables in Eblaite, which is not at all the case.

The mixed character of Eblaite is reflected in the words designating the large numbers: *mi-at* '100' is Common Semitic, *li-im* '1,000' is East Semitic, *rí-bab* '10,000' is West Semitic, and *ma-i-at* '100,000' goes its own way in a new direction. The variant forms of '100,000' are *ma-i-at, ma-i-ḫu-at* and *ma-ḫu-at*; all three are probably related phonetically although the details are not yet clear.

It is interesting to note the Eblaite forms of Sumerian names: ^{d}EN-LIL > *I-li-lu*, ^{d}NIN-KAR-DU > *Ni-ka-ra-du*, ^{d}SUMUQAN > *Sa-ma-gan*, ^{d}ASNAN > *A-sa-ma-an*.

The bilingual equation BAḪAR 'potter' = *wa-ṣí-lu-um* (cognate with Hebrew *yôṣēr* 'potter') illustrates that, (1) unlike Northwest Semitic, initial **w-* remains in Eblaite (as in Akkadian and Arabic) without shifting to *y-*; and that (2) *r* may change to *l*. The change of *r* to *l* (which is quite common) is not reversible, for *l* never shifts to *r*. The falling together of *r* and *l* (in the *r > l* shift) reflects a common phenomenon. In Linear A and B, and in hieroglyphic Egyptian, *r* and *l* fall together, at least in the orthography. In Chinese and Japanese, they definitely fall together in the spoken language as well.

The geographical name (GN) *Ar-ga*^{ki} /ʾarqa/ has lost the final *-t* of the sg. f. suffix *-at*. In the Amarna Letters this GN is called Arqat. Compare the GN É-ma^{ki} = Ḥamāt (modern Ḥama). The final *-t* of the sg. f. suffix is generally dropped in Hebrew, and regularly in spoken Arabic. Final *-t* begins to be dropped in Egyptian in the third millennium.

The GN *Máš-a*^{ki} is to be compared with the GN *Maśśāʾ* (Proverbs 30:1; 31:1). The *-a* accordingly does not reflect the feminine suffix (which would be written with a final *-h* in Hebrew) but final *-ʾ*.

Etymology indicates that *l* frequently loses its normal consonantal character in Eblaite and is not represented in the script. For example, *a-bi-nu-u(m) i-a-ba-nu* SIG₄-GAR /ābinū yabānū libitta/ 'brickmakers will make the brick'. The root of the first two words is **lbn* although no *l* appears in the orthography. We must reckon with vocalic *ḷ* (and also vocalic *r̥*) in the Semitic languages. In Akkadian, the second radical of all quadriconsonantal verbs is either *l* or *r*. This may explain the Arabic conjugation III (*qātala*; cf. Hebrew *pôlēl* with a long vowel representing the

absorption of vocalic *ḷ* or *ṛ*).

Initial *w-* does not undergo the Northwest Semitic shift to *y-*. Eblaite retains *w-* like Akkadian, Arabic and Ethiopic. In addition to the example on p. 105, note (the dual) *wa-ti-a* /wādi-ā/ 'the two wadis'.

Vowels
The script reflects four vowels: *a*, *i*, *u* and *e*. However, *e* may well be non-phonemic but only positionally conditioned by contact with *ḥ* or *ʿ*.

The diphthongs *ay*, *aw* and *ue* can all be reduced to *ā*. In the case of *ay* > *ā* and *aw* > *ā*, the shift can be explained as "falling" diphthongs (with the accent on the *a*) as distinct from "rising" diphthongs (with the accent on the *y/w*) whereby **bayt* yields *bīt* 'house' and **mawt* yields *mūt* 'death' in Akkadian. While we find many Eblaite examples of *ay* > *ā* and several of *aw* > *ā*, there is only one of *ue* > *ā*: the Akkadian *Suen* (which comes into Babylonian and Assyrian as *Sin*, is reduced to *San* 'Moon' in *San-Ugāru* 'Moon of the Field' (an epithet of the Moon in an in-cantation where the reference to the Moon is fixed by duplicate passages which have ITI 'month, moon' instead). *San* also appears instead of *Sin* (the Moon god) in the Hebrew form of the Mesopotamian names *San-ḥērîb* (Sennacherib) and *San-ballaṭ*. In the Palestinian GN 'Beth-shan' the second element (Shan) desig-nates the Moon god. Examples of *ay* > *a* in Eblaite: *ba-du* /bāt-/ 'house'; *a-na* and *a-na-a* /ʿānā/ 'eyes' (du.); *ba-nu* /bān-/ 'tamarisk' (vs. Akkadian *bīn-* with rising diphthong); *ma-sa-lu-u(m)* /māšalu/ 'justice, uprightness' from **yšr* (note He-brew *mêšārîm*) and from the Št stem of the same root *uš-da-ši-ir* /uštašir/ 'he pre-pared, released (lit. 'caused to be right)'. There are fewer examples of *aw* > *ā*: **ʾaw* > *ʾā* 'or'; and the PN *Mu-ša-ra-du* (Š participle of **wrd* 'to bring down gods with gifts = to propitiate them successfully'; cf. Arabic and especially Ugaritic).

Cryptic Writings
Cryptic writings were meant to be read by the initiated. We know from a bilingual tablet that ^dMUL = *Kab-kab* 'Star'; however in an incantation, it is written *ga : ga : ba : bu* /kabkabu/ (ending in nominative *-u*). A similar cryptograph is *ga : ga : li : la* which calls to mind *galgal* 'wheel'; if correct, note that *li* stands for vowelless *l*.

The name *Da-gu-nu* corresponds to Hebrew *Dāgôn* (< Dagān) with *ā* > *ō* which is frequent in Canaanite. Compare also Minoan *Da-gu-na*.

-dk- is assimilated to *-kk-* in *a-za-me-ga* /ʾaṣmikka < **ʾaṣmid-ka*/ 'I bind thee'.

Sum-ar-rúm^{ki} 'Sumer' comes into Hebrew as *Šinʿār* 'Babylonia'. Note that AR = *ʿar* and begins a new syllable. Another change in syllabification is inherent in Eblaite and Old Akkadian *en-ma* (> Standard Akkadian *um-ma*), and Hebrew *nʾum* – all meaning 'so says' (followed by direct discourse). The initial *n-* is prop-erly vocalic *ṇ*, which has to be written *en-* according to the rules of the Meso-potamian syllabary, and *nĕ* according to the rules of Masoretic Hebrew (Gordon 1993: 109–110).

Vocalic nasals and liquids include *ṛ*. The tree called the ^{GIŠ}ŠU-ME is bilingually

rendered in Eblaite as either *ši-rí-mi-nu* or *ša-mi-nu*. Expressed alphabetically, the choice is between *šrmn* and *šmn*. The *r* is vocalic and not represented in the latter.

Philippi's Law (*i* > *a* in an originally closed accented syllable) is operative in Northwest Semitic (Canaanite, Aramaic, Ugaritic). It does not take place in Akkaidan, Arabic, etc. Since Eblaite is a border language between East and Northwest Semitic, it is not surprising that it occurs sporadically. Thus in Eblaite both *libittu* and *libattu* (spelled *li-bi-tum* and *li-ba-tum*) 'brick' occur.

Pronouns
The following independent personal pronouns are attested:

Sg.	1c.	nom.	*an-na, a-na* /ʾanna/ 'I'
	2m.	nom.	*an-da* /ʾanta/ 'thou'
		acc.	*gu-wa-ti* /kuwāti/ 'thee'
		dat.	*gu-wa-si* /kuwāši(m)/ 'to thee'
	3m.	nom.	*su-wa* /šuwa/ 'he'
		acc.	*su-wa-ti* /šuwati/ 'him'
		dat.	*su-wa-si* /šuwāši(m)/ 'to him'
	f.	nom.	*si-a* /šiya/ 'she'
Du.	1c.	dat.	*ne-si-in* /nešin/ 'to both of us'
Pl.	2m.	nom.	*an-da-nu* /ʾantanu/ 'ye, you'
	3m.	nom.	*su-nu* /šunū/ 'they'

The following suffixed personal pronouns are attested:

Sg.	1c.	gen.	*-i* /-ī/, or (postvocalic) *-a* /-(y)a/ 'my'
		acc.	*-ni* /-ni/ 'me'
	2m.	gen. acc.	*-ga* /-ka/ 'thy, thee'
		dat.	*-kum* /-kum/ 'to thee'
	f.	gen. acc.	*-gi* /-ki/ 'thy, thee'
	3m.	gen. acc.	*-sù, -su* /-šu/ 'his, him'
		dat.	*-su-um* /-šum / 'to him'
	f.	gen.	*-sa* /-ša/ 'her'
Pl.	1c.	gen .	*-na* /-nā/, *-nu* /-nū/ 'our'
	2m.	acc.	*-gu-nu* /-kunū/ 'you'
	3m.	gen. acc.	*-su-nu* /-šunū/ 'their, them'
	f.	gen.	*-si-na* /-šina/ 'their'
		acc.	*-si-na-at* /-šināt/ 'them'

The lone occurrence of an unusual pronominal suffix calls for special notice. The meaning of *ši-ne-mu* /šinn-êmo/ 'his teeth' is fixed by context. The ending *-êmō*, known from Biblical Hebrew poetry, is a general possessive suffix that can be applied regardless of person. Here it means 'his teeth' but in another context it

could mean 'their teeth' and so forth. An exact (though admittedly clumsy) translation is 'thereof'.

The relative pronoun 'who, which, that' is derived from the noun meaning 'man'. In the Ebla tablets it can be expressed by the Sumerogram LÚ 'man'. The same semantic development has taken place in Semitic. There is an Egypto-Semitic uniconsonantal word for 'man'; it is written *s* in Egyptian; in Old Akkadian it is used as the relative pronoun 'who, which', fully inflected (nom. *šu*, gen. *ši*, acc. *ša*). Later, only *ša* is used regardless of case. In archaic Hebrew, *ša* appears sporadically. From late Biblical Hebrew and in all subsequent stages down to the present, it appears as *še* 'who, which'. In several Ebla PNs, *Šu-* 'he of' is followed by a theophoric element; e.g., *Šu-Na-im*, *Šu-I-lum*, *Šu-Ma-lik*; Na'îm = 'The Good One', Ilum = 'El, God'; Malik 'The (divine) King'. The Eblaite determinative relative pronoun (in agreement with Akkadian and Amorite) is:

		Nominative	Genitive	Accusative
Sg.	m.	*šu*	*ši*	*ša*
	f.	*ša-du* /šātu/	*ša-ti* /šāti/	
Pl.	m.		*šu-ti* /šūti/	*šu-ti* /šūti/
	f.		*ša-ti* /šāti/	*ša-ti* /šāti/

The interrogative pronoun, animate, is nom. *ma-nu* /mannu/ 'who?', acc. *ma-na* /manna/ 'whom?'; inanimate nom. *mi-nu* /mīnu/, acc. *mi-na* /mīna/ 'what, which?', dat. *mi-ne-iš* /mīniš/ 'to which?'.

The preceding pronoun may be generalized by the suffixing of enclitic *-ma*: animate *ma-nu-ma* /mannuma/ 'whoever', inanimate *mi-nu-ma* /mīnuma/ 'whatever'.

The noun has two genders (masculine and feminine), three numbers (singular, dual and plural) and six cases. Mimation is sometimes indicated and sometimes not, so that no rule can be formulated.

The six case endings are: nominative *-u(m)*, genitive *-i(m)*, accusative *-a(m)*, dative locative *-iš*, locative adverbial *-u(m)*, absolute *-a/-Ø*. The three commonest cases (nom., gen., acc.) are often confused. There are some indeclinables in *-a*, especially among the PNs such as *Ra-ba*, *Ba-ga-ma*, *Tab-rí-sá* and the DN *ᵈBa-ra-ma*. While a bilingual renders the name of the Sumerian god EN-KI as *É-um* /Hayyum/ in Eblaite, the other Eblaite texts regularly render the name *É-a* /Hayya/ ending in *-a*. Other DNs in *-a* are: *É-da* /Hadda/ and *Qu-ra* /Qūra/.

The absolute in *-Ø* (zero) is common in some proper names; e.g., the DNs *ᵈGa-mi-iš*, *ᵈRa-sa-ap*; the GNs *A-da-bi-ik*ᵏⁱ, *A-da-ti-ik*ᵏⁱ and in month names such as ITI *za-É-na-at*.

The construct state is not always expressed in writing: for example, it is not expressed in *ha-za-nu* GN 'the mayor of X', while it is in *ma-lik* GN 'the advisor of Y'.

The suffix marking the dual is *casus rectus -ā(n)*, *obliquus -ay(n)* (which can shift to *-ā(n)* in accordance with the reduction of the diphthong *ay* to *a*); e.g., *tal-*

da-an /daltān/ 'double doors' and *su-lu-la-a* 'the two horns'. The following citation has the dual suffix in the word designating a pair of deified rivers and a dual noun in apposition with them: 2 ^{d}*Ba-li-ḫa wa-ti-a* /Baliḫa wādia/ 'the two divine Baliḫ rivers, the two streams'.

The suffix marking the pl. m. *casus rectus* is *-ū; obliquus -ī*. That marking the pl. f. *casus rectus* is *-ātu/i, obliquus: -āti*. The sg. f. *zi-ne-éb-ti* 'tail' is pluralized *zi-na-ba-ti*.

One of the common methods of pluralizing a noun in Sumerian is to repeat it. When a scribe writes GURUŠ-GURUŠ 'workmen' in an Eblaite tablet it is possible that he intended the reader to add the Semitic plural suffix *-ū/ī* to a Semitic word for 'workman'. But that is not necessarily so. Though repeating a noun for plurality is not a normal Semitic usage, we do find the repetition of Semitic words to pluralize them in Eblaite; e.g., *na-si$_{11}$ na-si$_{11}$* 'patricians' (passive participle of *nś 'to lift up'), *maš-maš-sù* 'his sons'.

The doubling of nouns for pluralizing reflects Sumerian usage, because Sumerian has no dual, and therefore plurality starts with two. In Egypto-Semitic, however, there is a dual, so that plurality starts with three. Therefore we find the plural *ʾilū* 'gods' written DINGIR-DINGIR-DINGIR.

Etymologies, even when correct, do not always supply satisfactory meanings for Eblaite vocabulary. The title of the head man in the hierarchy of Ebla is EN, an old term signifying the priest-king of a theocratic Sumerian city-state, with emphasis on his priestly rather than his royal status. A bilingual informs us that NAM-EN 'enship' = Eblaite *ma-li-gú-um*. The abstract noun standing concretely for a type of person (like the abstract "acquaintance" in the sense of "someone we know") is common in Semitic (e.g., Akkadian *mūdu* or Hebrew *môdāʿ* lit. 'knowledge', but in the sense of 'a friend'). Accordingly NAM-EN implies that EN was pronounced /malikum/. When the king is called *malikum* we are dealing with the West Semitic sphere; in the East Semitic sphere the king is called *šarrum*. The noun *nāšíʾ* 'exalted one' designates 'king, prince' in Biblical Hebrew and 'president' in modern Hebrew. At Ebla it designates the full-fledged free citizen (whom we may call a 'patrician') as distinct from a GURUŠ 'worker' (= 'plebeian' or 'helot') and from the lowest IR$_{11}$ or 'slave'.

There is one pair of words that raises fundamental questions to be pondered though not definitively answered now. The nouns *ḫrd* 'child' and *ms* 'son, child' have long been known only from Egyptian. Then both turned up in Ugaritic of the Late Bronze Age, and now in Eblaite of the Early Bronze Age. Ebla had connections with Egypt; alabaster vessels with the names of Chefren (Fourth Dynasty) and Pepi I (Sixth Dynasty) have been found at Ebla in the archeological stratum that yielded the Archives. The meaning of Eblaite *ḫar-da-du* /ḫardātu/ in the sense of 'young women' is fixed by context; the same form with the same sense occurs in Old Kingdom Egypt. The situation with Eblaite *maš* (= Egyptian *ms*) is more complex and tantalizing. It is common in all periods of Egyptian from start to finish. But it also occurs in Sumerian (MÁŠ) with the meaning of a 'kid, young goat'. Words for young animals are often applied to children.

The adjective has long been known to be inflected like the noun except for the pl. f., *status absolutus* in Syro-Aramaic. Now Ebla shares that exception with Syro-Aramaic. In Hebrew *mĕlākîm/n* 'kings' has its feminine counterpart in *mĕlākôt* 'queens'. But in Aramaic the phonetic equivalent of Hebrew pl. f. construct *malkôt* 'queens (of)', namely *malkāt* 'queens (of)', can only serve as the construct. The Aramaic absolute (corresponding semantically to Hebrew *mĕlākîm/n* 'kings') is *malkān* 'queens'. Thus Eblaite *du-na-an* /dunnān/ 'mighty (females)', has the suffix *-ān* for the adjective pl. f. absolute.

Tense

There are two principal tenses: (1) the so-called imperfect with prefixes and some suffixes, and (2) the so-called perfect with suffixes but no prefixes. Verbs are usually classified as strong (with a root of three stable consonants) or weak (with a semivowel: *w* or *y*, functioning as one of the root consonants; or with only two consonants in the root with the second one repeated). A root can be treated within the matrix of several conjugations, all familiar from the other Semitic languages; e.g., G, Gt, D, Š, ŠD, ŠDt. Like Aramaic, Eblaite has no N conjugation. The imperfect has modal suffixes; thus *-u* is the sign of the indicative. In the perfect, the sg. 3m. ends in *-a*. In Akkadian the perfect is for stative or intransitive verbs; in West Semitic the perfect is used for transitive as well as intransitive verbs. Here, Eblaite goes with West Semitic.

The imperfect has *a, i* or *u* as the thematic vowel between the last two consonants of the root:

u-class: *Iq-bu-ul-(Ma-lik)* is a PN meaning '(The Divine King) has accepted (the propitiatory offerings of the parents and granted the child who bears the PN)'.

i-class: *Ig-ri-iš-(Li-im)* is a PN meaning '(God) has driven out (the forces of evil)'.

a-class: *Ir-kab-(Ar)* is a PN meaning '(The Deity Ar) rides'.

The prefix vowel gives the impression that there is an isogloss with East Semitic in which we find Akkadian *iprus, iddin, iṣbat* vs. West Semitic where we find Arabic *yaqtul, yajlis, yasmaʿ*. Little weight can be attributed to the loss of the *y-* in Akkadian because of the vocalization of the Hebrew in the LXX (Septuagint Greek) tradition and some living traditions like the Arabic. Note LXX *ISAAK* 'Isaac' (vs. Masoretic *Yiṣḥāq*) and Arabic *ʾIsḥāq*; and vs. Masoretic *Yiśrāʾēl*, 'Israel', note Arabic *ʾIsrāʾīl*. However, *ya-* is preserved in both the LXX and Arabic traditions: Masoretic *Yaʿaqōb*, LXX *IAKOB*, Arabic *Yaʿqūb*.

The attested morphs of the imperfect tense are: sg. 1c. *ʾa*-CCVC; sg. 2m. *ta*-CCVC; sg. 3m. *i*-CCVC; sg. 3f. *ta*-CCVC; pl. 3m. *i*-CCVC-*ū*.

The perfect (sg. 3m. = CaCVCa) is used in PNs such as *Ra-ga-ma-Il* 'God has spoken' (with **rgm* 'to speak' as in Ugaritic) or *Qá-ba-Lum* 'God has spoken' and *Qa-ba-Da-mu* 'The (god) Damu has spoken' (where the verb is familiar from Akkadian *qabū* 'to speak'). East Semitic restricts the perfect to intransitive verbs, whereas Eblaite, like West Semitic, uses it for transitive as well as intransitive verbs. In addition to the above transitive perfects, note also *ba-na-a* 'he has built'.

The following is a D imperfect intensified by an infinitive absolute ending in adverbial -*u* (as in Ugaritic and Akkadian): *i-na-É-áš na-É-su* /ʾinaḫḫaš naḫâšu/ 'I shall verily perform magic'. Note that the D prefix does not go with Arabic and Akkadian *ʾu*-.

The infinitive absolute in -*u* appears in the *figura etymologica*: *ḫu-mu-zu ḫa-ma-zi, bu-ru₁₂ ba-ra-ru₁₁* (*ʾbrr*).

The ŠD participle *muška⟨⟩inum* is of interest because it explains Akkadian *muškēnum* 'helot, plebeian' which survives into modern Hebrew *miskēn* and Arabic *miskīn* 'poor'; and French *mesquin* 'shabby, mean'.

The composite interregional nature of Eblaite precluded the modicum of consistency and uniformity that more natural languages have developed through analogic leveling. We thus find the same root (*ʾhlk*) with two treatments of the G infinitive in the bilinguals: *É-a-gu-um* /hākum/ and *É-la-gum* /halākum/ 'to go'. There would be little merit in our striving to create a consistency that is not there.

Sundry Particles

En-ma 'so says' introduces direct discourse.

In the PN *A-ku-Da-mu* (meaning 'The god Damu exists'), *a-ku* seems to anticipate colloquial Iraqian Arabic *aku* 'there is'.

What has evolved into the conjunction *wa* 'and' is an Egypto-Semitic particle indicating existence. It serves as an auxiliary verb in an old construction named (though badly so) the *waw*-conversive. It has been known from classical Hebrew and other Canaanite dialects. The *w* + verb must head the sentence or clause; then comes the subject; finally comes the object if the verb is active and transitive. *Wa-íl IGI-IGI EN wa-NAM-KU₅* 'The ruler's eyes were raised and he swore'. This construction (*w* + imperfect) is the normal narrative tense in classical Old Testament prose. With the passing of time, it became vestigial and eventually went out of use. Its earliest occurrence so far known is at Ebla.

Besides *wa* (*ú*, *ú-ma*), *ap* is also used as the conjunction 'and'.

The preposition *al₆* /ʿal-/ means '(up)on'. The dative is indicated by the preposition *si-in* /sin/ 'to'. One and the same root is declined to form three prepositions (as in Akkadian): *áš-du* /aštu/ '(out) from', *áš-ti* /ašti/ 'from', *áš-da* /ašta/ 'on, at, from'. *Mi-in* /min/ 'from' (as in Canaanite, Aramaic and Arabic) also occurs. East Semitic *in* 'in(to), at [local], on [temporal]' occurs more frequently than West Semitic *ba* 'in'. Compare *išₓ-ki* /ʿiški/ 'for' with Ethiopic (Geʿez) *ʿaskā* 'into'. The following illustrates the temporal application of *áš-du* and *si-in*: *áš-du* U₄-U₄ *si-in* U₄-U₄ 'from days to days, periodically, annually' patterned after a Northwest Semitic idiom (Hebrew *miy-yāmîm yāmîmā* 'from days to days, periodically, annually').

Syntax

The word order is rather free. Often the verb heads the sentence: e.g. *ʾaṣmidu ḫabḫabi* 'I bind Ḥabḥaby', *ʾasmikka ʿal-1 ʾabni* 'I bind thee on a stone'.

For emphasis the order can be varied. Note subject–object–verb (+ resumptive

accusative suffix) in: *'annā kuwāti-ma 'iṣbaṭeka* 'I thee strike = I strike thee'. Logically the verb *'iṣbaṭeka* expresses the entire subject–object–verb; but the magician is asserting his power, and then emphasizes the specific target of his magic act.

Chronology and Borrowing

The Early Bronze Age date of the Ebla Archives provides an abundance of Semitic documents in Syria a millennium earlier than the Ugaritic tablets and half a millennium earlier than Minoan Linear A. Eblaite words borrowed from Sumerian, such as *mallāḫ-* 'sailor', show that they were already part of Syro-Palestinian speech and did not have to be borrowed much later, as was previously assumed. Words like *kinnār-* 'harp, lyre' > Greek *kinúra*, show how specific elements in Greek culture were already in the Near East before Greece was Greek.

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Further Reading

A complete bibliography of the Eblaite texts would fill a large volume. The following is instead a list of the publications containing large assemblages of Eblaite texts.

The first group is called MEE (Materiali Epigrafici di Ebla); for the sake of avoiding a glaring gap, MEE 1 is included though it is a catalogue of the texts rath-

er than the texts themselves. MEE is published by the Seminario di Studi Asiatici of the Istituto Universitario Orientale di Napoli.

Pettinato, Giovanni, ed. 1979. MEE-1: *Catalogo dei testi cuneiformi di Tell Mardikh-Ebla.*
—— 1980. MEE-2: *Testi amministrativi della biblioteca L 2769*, volume 1.
—— 1981. MEE-3: *Testi amministrativi della biblioteca L 2769*, volume 2.
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Mander, P., ed. 1990. MEE-10: *Administrative Texts of the Archive L.* Rome: Dipartimento di Studi Orientali of the Università degli Studi di Roma "La Sapienza."

This series is also called Materiali per il Vocabulario Sumerico-1. Some of the texts have been published previously, but twenty-three are published here for the first time.

The group that follows is the ARET (Archivi Reali di Ebla– Testi) series, published by the Università degli Studi di Roma "La Sapienza."

Archi, Alfonso, ed. 1985. ARET-1: *Testi amministrazioni: Assegnativi di tessuti.*
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Archi, Alfonso and M. G. Biga, eds. 1982. ARET-3: *Testi amministrazioni di vario contenuto.*
Biga, M. G. and L. Milano, eds. 1984. ARET-4: *Testi amministrativi: Assignazioni di tessuti.*
Edzard, D. O., ed. 1984. ARET-5: *Hymnen, Beschwörungen und Verwandtes.*
Fronzaroli, Pelio, ed. 1993. ARET-11: *Testi reali della regalità.*
Milano, L., ed. 1990. ARET-9: *Testi amministrativi: Assegnazioni di prodotti alimentari.*
Sollberger, Edmond. 1986. ARET-8: *Administrative Texts Chiefly Concerning Textiles.*

With the exception of ARET-8, all of the above volumes include indexes which enable the reader to locate details conveniently.

7 *Aramaic*

Stephen A. Kaufman

The Periods and Sources of Aramaic

Aramaic is attested over a period of almost 3,000 years, during which time there of course occurred great changes of grammar, lexical stock, and usage. Although no universally accepted classification scheme for these phases exists and new discoveries regularly alter our picture – especially for the sparsely attested older dialects – the general shape of the outline is clear.

Old Aramaic *c.* 850 to *c.* 612 BCE

This period witnessed the rise of the Arameans as a major force in Ancient Near Eastern history, the adoption of their language as an international language of diplomacy in the latter days of the Neo-Assyrian Empire, and the dispersal of Aramaic-speaking peoples from Egypt to Lower Mesopotamia as a result of the Assyrian policies of deportation. The scattered and generally brief remains of inscriptions on imperishable materials preserved from these times are enough to demonstrate that an international standard dialect had not yet been developed.

The extant texts may be grouped into several dialects:

Standard Syrian (or Western Old Aramaic): These inscriptions, of very limited chronological (mid-ninth to end of eighth century BCE) and geographic spread (within a circle of radius *c.* 100 km centered on Aleppo) include commemorative stelae and international treaties.

Samalian: At modern Zincirli, dynasts of the Neo-Hittite kingdom of Sam'al (also referred to by some scholars as Ya'udi) wrote their dedicatory inscriptions first in Phoenician (KLMW), then in a local, highly idiosyncratic Aramaic dialect (the so-called Hadad and PNMW inscriptions), and, finally, in standard, Syrian Old Aramaic (BR-RKB).

Fakhariyah: On the Upper Habur, a bilingual, Neo-Assyrian and Aramaic inscription on a statue. The script and orthography of this inscription are of major importance for the history of the alphabet.

Mesopotamian: Primarily consists of brief economic and legal texts and endorsements scratched on clay tablets. Not surprisingly, both the Fakhariyah and Mesopotamian dialects evidence a substantial amount of Akkadian influence.

Deir Alla: This important but frustratingly fragmentary text, painted on the plaster walls of a cultic installation in the mid-Jordan valley, recounts a vision of

"Balaam, son of Beor," the trans-Jordanian prophet known from Numbers 22–24. The fact that some scholars classify the language of this text as a Canaanite, rather than an Aramaic, dialect, illustrates that there is no clearly demonstrable division between Canaanite and Aramaic at this time.

Imperial Aramaic (or "Official Aramaic") c. 600 to c. 200 BCE

During this period Aramaic spread far beyond the borders of its native lands over the vast territories of the Neo-Babylonian and even larger Persian empires – from Upper Egypt to Asia Minor and eastward to the Indian subcontinent. Unfortunately, only a minuscule remnant of the undoubtedly once vast corpus of administrative documents, records and letters that held these empires together has been preserved, for such texts were written in ink on perishable materials, in sharp contrast to the well-nigh imperishable cuneiform clay texts of earlier western Asiatic cultures. (A single syllabic cuneiform Aramaic text, an incantation from Uruk, is known. Though the text itself is from Hellenistic times, its archaizing language may be ascribed to this period.) Isolated, monumental stone inscriptions have been found in the various peripheral regions (e.g. Sheik Fadl in Egypt, Teima in Arabia, Daskyleion in Asia Minor), but none to speak of, surprisingly enough, in the core regions of Syria and Mesopotamia. The bulk of the finds, however, is from Egypt, where the dry climate led to the preservation of papyrus and leather along with the expected ostraca and stone inscriptions. The major finds there are:

1 papyrus archives of the Jewish military garrison at Elephantine/Syene (including deeds of sale, marriage contracts, formal letters to the authorities in Jerusalem, and fragments of literary materials);
2 the correspondence of the Persian satrap of Egypt, Arsames;
3 a packet of letters sent to family members residing at Syene and Luxor, discovered at Hermopolis;
4 Saqqarah: A late seventh-century papyrus letter from a Philistine king (perhaps of Ekron) asking for Pharaoh's help against the king of Babylon; and legal and economic records on papyri and ostraca from the fifth and fourth centuries.

The Aramaic "official" letters in the book of Ezra are almost certainly to be viewed as composed in Imperial Aramaic, for both their language and their epistolary style are appropriate to the period.

From a linguistic perspective, what characterizes this period above all is that it witnessed the development of a literary, standard form of both the language and its orthography – an ideal to be strived for, at least in literary texts and formal documents. The model for this standard appears to have been Babylonian Aramaic as spoken and written by educated Persians. This ideal, in the guise of "Standard Literary Aramaic" (SLA), was to last more than a thousand years.

The semi-demotic language of the personal letters evidences features that are later to appear in the formal language: weakening of the *haf⁽el* (*hktb/yhktb*) to

ʾafʿel (*ʾktb/yktb*), and substitution of *nun* for final *mem* on the plural pronominal suffixes. The later Western Aramaic features of *-n* on the pl. 3 perfect of IIIy verbs and *mem* preformative of derived theme infinitives are also found. Changes in the formal language include the simplification of the infinitive to a single form (*peʿal mktb*); the use of pl. 3m. forms for pl. 3f.; and the first appearance of the determined plural ending *-ē*. This form appears first on gentilics and collectives, and later, in the Eastern dialects, will replace *-ayyā* as the normal ending of the masculine plural.

Middle Aramaic *c.* 200 BCE to *c.* 250 CE

In this period, namely the Hellenistic and Roman periods, Greek replaced Aramaic as the administrative language of the Near East, while in the various Aramaic-speaking regions the dialects began to develop independently of one another. Written Aramaic, however, continued to serve as a vehicle of communication within and among the various groups. For this purpose, the literary standard developed in the previous period, Standard Literary Aramaic, was used, but lexical and grammatical differences based on the language(s) and dialect(s) of the local population are always evident. It is helpful to divide the texts surviving from this period into two major categories: epigraphic and canonical.

Epigraphic

Palmyrene: dedicatory and honorific inscriptions and a decree of duty tariffs from the independent Syrian desert oasis trading city of Tadmor/Palmyra. Many of the texts are Greek bilinguals.

Nabatean: tomb and votive texts from the Arab kingdom of Petra. A hoard of legal papyri from the Bar Kochba period was discovered in one of the Nahal Hever caves.

Hatran: dedicatory inscriptions from the important, second century CE Parthian kingdom of Hatra. A smaller, similar group was found at nearby Assur.

Other: isolated inscriptions from Syria (especially Dura-Europos), Asia Minor, Armenia, Georgia, Media, Parthia, Persia, and Babylonia. Archival materials from the Judean desert are also to be placed here.

Canonical

Daniel
The Aramaic portions of this biblical book (in contrast to the material in Ezra) clearly belong to this dialect rather than to Imperial Aramaic.

Jewish Literary Aramaic

1   Qumran
    Among the Dead Sea Scrolls, much (if not most) of the non-sectarian, para-biblical material is in Aramaic. This includes: the Genesis Apocryphon,

Targum of Job, the Books of Enoch, and the Testament of Levi.
2 Targum Onkelos/Jonathan
   Although the only reliable manuscripts of this Jewish translation/interpretation of the biblical text stem ultimately from the Babylonian rabbinical academies, the consonantal texts of Targum Onkelos to the Pentateuch (Torah) and Jonathan to the Prophets apparently originated in Palestine in this period.
3 Legal formulas
   Preserved in Rabbinic literature are texts and formulas of an authentic Aramaic tradition.

Middle Iranian Ideograms
After a brief flirtation with cuneiform for their monumental inscriptions ("Old Persian"), the Persians adopted the Aramaic script for writing their language and, perhaps under the cuneiform model, in both Parthian and Pehlevi, Aramaic ideograms were used to indicate Persian lexemes.

Also apparently from the earliest part of this period is the Aramaic material preserved in Demotic script papyrus Amherst 63, consisting of a New Year's ritual and the lengthy story of the conflict between the two royal Assyrian brothers, Asshurbanipal and Shamashshumukin.

Late (or Classical) Aramaic c. 200 to c. 1200 CE
The bulk of our evidence for Aramaic comes from the vast literature and occasional inscriptions of this period. During the early centuries of this period, Aramaic dialects were still widely spoken. During the second half of this time frame, however, Arabic had already displaced Aramaic as the spoken language of much of the population, so many of our texts were composed and/or transmitted by those whose Aramaic dialect was only a learned language. Although the dialects of this period were previously generally divided into two (Eastern and Western) branches, it now seems best to think rather of three: Palestinian, Syrian, and Babylonian.

Palestinian

Jewish
Inscriptions (mostly from synagogues).
Targumic: the dialect of the Palestinian Targumim (Bible translations: Neofiti, Genizah fragments (from the storeroom of the Old Cairo Synagogue), and the Fragment Targum).
Galilean: the dialect of the Talmud and midrashim of the land of Israel (so-called "Yerushalmi").

Christian
Christian Palestinian Aramaic: a small group of inscriptions, Bible translations, and liturgical lectionaries from the Judean region written in Syriac script.

Samaritan
Two different translations of the Pentateuch, liturgical poetry, and some literary/exegetical works are preserved from this group. The reading tradition of the modern Samaritan priests is a valuable linguistic source here, as it is for their Hebrew tradition.

Syrian

Syriac
The liturgical language of Eastern Christianity is by far the best-documented Aramaic dialect. A vast and varied literature in two (Eastern/Nestorian, Western/Jacobite) dialects and orthographies has been preserved, as well as small collections of epigraphic and archival materials. The orthography of Syriac is based on that of Standard Literary Aramaic, while its lexicon and grammar are primarily that of the city of Edessa.

Late Jewish Literary Aramaic
This literary dialect, only recently recognized, served for the composition of Aramaic parabiblical and liturgical texts (the best known of them being Targum Pseudo-Jonathan, Targum Psalms, and the canonical Targum of Job) and in some cases (Tobit and perhaps others) for the translation into Aramaic of works whose presumed Hebrew or Aramaic original had been lost. Like other literary dialects, it borrows heavily from its forbears, in this case Biblical Aramaic, Jewish Literary Aramaic, Jewish Palestinian Aramaic, and Jewish Babylonian Aramaic. Like most rabbinic materials, the texts have suffered greatly in transmission and often give the impression of massive inconsistency. Recent studies have revealed, however, that this is a real, albeit literary, dialect with its own grammar and lexicon, whose lexical affinities point to a close relationship with the Syriac-speaking region.

Babylonian

Jewish
The spoken language of the Jews of Babylonia, preserved primarily in large parts of the Babylonian Talmud (records of the academies of the fourth and fifth centuries CE). Slightly different dialects are found on "magic bowls" (incantations written on pottery bowls) and in the halakhic literature of the post-Talmudic Babylonian sages (gaonim). The written and oral traditions of the Jews of Yemen are particularly important sources for this material.

Mandaic
The spoken and literary language of a non-Christian gnostic sect. The sect itself is generally thought to have Palestinian origins, but its language is totally at home in Southern Mesopotamia.

Modern Aramaic
See Chapter 16.

Phonology

Consonants

Old Aramaic
In this period the Proto-Semitic phonemic inventory survives virtually unchanged, though some minor changes in articulation seem to be indicated. Since the linear consonantal alphabet used for Aramaic, borrowed from a Canaanite/Phoenician source, had only twenty-two graphemes, several of the characters had to be polyphonous. Thus:

Šin indicates: *š*, *ś*, and *θ*
Samek (at Fakhariyah only) indicates both *s* and *θ*
Zayin indicates *z* and *δ*
Ṣade indicates *ṣ* and *z*
Qop indicates *q* and *ḍ* (probably a velar spirant by this time)
Ḥet indicates *ḥ* and *ħ*
ʿayin indicates *ʿ* and *γ*

That these consonantal phonemes still survived (rather than having merged with their graphic equivalent) is surmised largely on the basis of their independent histories in the subsequent dialects. (See comparative tables of consonantal reflexes.) In the case of *ḥ* and *γ*, however, evidence for their existence is extrapolated from the fact that they are still regularly distinguished in the Demotic papyrus (see p. 117). The result of these orthographic choices (with the exception of *qop* for *ḍ*), taken together with the natural affinity between older dialects of closely related languages, gives these texts an appearance very similar to that of Canaanite, a fact that has led some scholars to unwarranted claims of Canaanite influence in grammar, vocabulary, and style.

Nun is always assimilated to a following consonant in this period: *ʾt* 'you' (< *ʾanta*).

Metathesis of dental and sibilant in the *t-* verbal stems, regular in the later dialects, is not fully carried through yet in Old Aramaic.

Imperial Aramaic
The graphic representation of consonants begins to change noticeably, presumably as a result of phoneme mergers and the ensuing or concomitant introduction of the spirantization of stops (lenition). Though in this period archaizing orthographies are common (particularly with *z* for original *δ* and *q* for original *ḍ*), the language here starts to take on the appearance it will have in subsequent dialects.

These mergers are: $\theta > t$, $\delta > d$, $\d > \,^\varsigma$, $\ztt > \t$, $\h > \h$ (though in some dialects the merger in fact may have been the reverse), $\gamma > \,^\varsigma$. The initial tendency for $\acute{s}$ to merge with s probably can also be ascribed to this period, since it is common to all subsequent dialects.

A noteworthy feature of the formal language (the base of Standard Literary Aramaic) is "nasalization," namely, the dissimilation of long ("doubled") consonants into *nun* + consonant. In some of these forms (e.g. *ʾnt(h)* 'you') the *nun* is etymologically correct but had assimilated in Old Aramaic. In others (e.g. *mndʿ* 'knowledge'), it is strictly a phonetic phenomenon. Nasalization is regularly found, not surprisingly, with dental stops, but it also appears, heretofore inexplicably, with the root *ʿll* 'to enter', e.g. the causative stem infinitive *lhnʿlh* (Daniel 4:3) vs. *lhʿlh* (Daniel 5:7). It now appears probable that the latter case merely represents an attempt to indicate the lengthened voiced velar spirant *γ*.

Classical Aramaic and Syriac
As a result of the above mentioned consonantal mergers, the standard phonemic inventory of classical Aramaic is the twenty-two-element "Hebrew" system as follows:

p	t	s	k	ḥ	h
		š			
b	d	z	g	ʿ	ʾ
	ṭ	ṣ	q		
m	n	l			
w	r	y			

At the onset of the classical period, lenition of the stops was a productive feature, but it atrophied in the course of the first millennium CE (and is not indicated in our transcriptions here).

Weakening of the laryngeal/pharyngeal consonants is characteristic both of Palestinian dialects (Samaritan and some Galilean) and of Babylonian. In Babylonian, final liquids, nasals, and interdentals also regularly elided.

Vowels

Old Aramaic
The indirect evidence of the morphology of feminine nouns (e.g. *malkatu* > *malkat* > *malkah*) suggests that final unstressed vowels had dropped by this period.

Imperial Aramaic
The distinctively Aramaic phonological feature – the reduction of short vowels in open unstressed syllables (using regressive alternation) – seems to have had its start in this period, at least for *i/u* vowels.

Classical Aramaic

Noteworthy features of the later dialects include:

Short vowels in unstressed syllables are first reduced and, ultimately in most dialects, totally elided. The vocalization traditions indicate that by now (i.e. after the loss of final case vowels) stress was generally on the final syllable of the word, though the modern dialects (and some reading traditions) show a strong tendency toward penultimate stress. In Syriac and Babylonian, originally final unstressed **long** vowels are also elided.

In the transcriptions used in this chapter, short vowels reduced in the classical stages of the language are indicated by superscript.

Characteristic of all Aramaic dialects, as of all Semitic dialects, is variation of vowel quality in different environments of stress and syllable length, even though such changes are indicated only irregularly in the schemes of vowel pointing introduced in Late Aramaic. Typically, front and back vowels are raised in stressed or opened syllables and lowered in closed unstressed syllables. In Western Syriac, all mid and low long vowels are raised; thus $\bar{o} > \bar{u}$, $\bar{e} > \bar{\imath}$, and $\bar{a} > \bar{o}$. In some dialects simplification of diphthongs is similarly conditioned; in others (notably Syriac) *ay* and *aw* are tenaciously preserved (or restored?) in the reading traditions.

Morphology

Pronouns

Personal Pronouns

Independent
The following may be ascribed to common Aramaic:

	Singular	Plural
1c.	*ʾanā*	*ʾanaḥnā*
2m.	*ʾattā, ʾantā*	*ʾattūma > ʾattūn, ʾantūn*
f.	*ʾattî, ʾantî*	**ʾattina > ʾattēn*
3m.	*hūʾa > hū*	*humu* (OA), *himmō himmōn, h/ʾinnōn*
f.	*hīʾa > hī*	**hina, h/ʾinnēn*

These forms are used exclusively in nominative and absolute constructions, except for the pl. 3 forms. The existence of a dual number may be assumed for early Aramaic but is not clearly attested.

In the later dialects, the independent pronouns are typically bound with present tense verbs (1st and 2nd person only) and nouns/adjectives in pronominal predicative constructions, yielding a series of enclitic forms. In Syriac, for example, some of the enclitic forms are: sg. 1c.: *nā* (often written *ʾnʾ*); 2m.: *at*, 2f.: *at* (written *ʾt, ʾty*); 3m.: *ū*, 3f.: *ī* (written *hw, hy*); pl. 1c.: *nan* (written *hnn* or *nn*). Thus

kāteb-nā 'I am writing'; *šappīr-ū* 'he is beautiful'.

Suffixed
The suffixed pronouns are used as possessives on nouns and objectives on verbs. Typical of these forms is the synchronic "jump" of the color of the distinctive final vowel into the position held by the case vowel at an earlier stage of the language; thus: **malku/a/ika* ('your king') > *malkāk*.

	Singular	Plural
1c.	*-ī* (nominal), *-anī* (verbal)	*-anā* (> *-an*, *-nan*)
2m.	*-āk*	*-kuma* > *kōn*
f.	*-ek*, *-ekī*	*-kina* > *kēn*
3m.	*-eh*, (*-hī* after vowels)	*-huma* > *hōn*
f.	*-ah*, (*-h(ā)* after vowels)	*-*hina* > *hēn*

Interrogatives

'who' (*mannu* [Uruk incantation]) > *man* (and often with enclitic 3rd person pronoun: *mannū*).

'what' *mā* (Syriac, more commonly, *mān*, *mānā*).

Relative
dī (spelled *zy* in Old and Official Aramaic) > *d-*. This, the reflex of the Semitic determinative pronoun *δū/ā/ī*, is used as the regular relative marker from earliest time. It also becomes the common genitive particle starting with the Official Aramaic period (see p. 129).

Demonstrative

Near
sg. m. *din* (> *dēn*), *dᵉnā*; sg. f. *dāʾ* > *dā*; pl. *ʾillay*, *ʾillayn*.

Far
In the earlier dialects, far demonstratives *per se*, with the typical Semitic augment *-k*, are regularly used: sg. m. *dnk*, *dk*, *dkn*; sg. f. *dky*; pl. *ʾlk*, etc. Early on, however, these tend to be replaced by the 3rd person independent pronouns.

In Middle Aramaic, a distinction develops between substantive and attributive demonstratives, the latter formed by combining the older forms with the deictic particle *hā*; thus Jewish Palestinian Aramaic *hādēn*, Syriac *hānā* (< *hā* + *dinā*). Eventually, the new forms are used in substantival constructions as well.

Indefinite or Impersonal
Common to all the dialects is *kull* 'all'. From Imperial Aramaic on *mindaʿm* > *meddem*, *medde* is 'something'. In the earlier dialects *ʾīš* is used for 'someone'

(> Babylonian *'iniš*); later on one finds instead *gbar* (literally 'man') and *ḥad* (literally 'one') in pronominal usage, while the relative *d-* alone is used in relative constructions.

Nouns

Case
Samalian shows a distinction between nominative and oblique cases in plural nouns: *-w/-y*. Standard Old Aramaic and Imperial Aramaic regularly spell the pl. m. suffix simply *-n*, so no distinction is apparent. By the time that the vocalic traditions first appear, no case distinction is attested for the plural. In the singular, however, the adverbial case (others "accusative") was apparently regularly used well into the late first millennium BCE, at last in the absolute state. Feminine nouns are spelled with final *-t* (presumably /ata/) instead of the *-h* (/ā/ < *at*) of the nominative case. (As in other Semitic languages, final *-a* of the adverbial was maintained somewhat longer than the *-u/i* of the other cases.) After the complete loss of case marking, the morphology of adverbials in the later dialects preserves relics of the case ending: *-ā, -āt, -āīt, -āūt*. The loss of the Semitic case system was obviously interrelated with the development of the postpositive definite article and the system of nominal states (see State, below). Since adverbials and predicatives are rarely determined, the survival of marking for this case should not be surprising.

State
The most notable difference between Aramaic and the other Northwest Semitic dialects is the presence of the suffixed definite article *-ā(ʾ)*. Probably in origin the same form as the Hebrew and Phoenician *ha:-* (cf. *hāʾ-* 'here'), the suffixation of this deictic element gives the language the appearance of having three noun states (absolute, construct, emphatic (or determined)):

	Absolute	Construct	Emphatic
sg. m.	*mlk*	*mlk*	*mlkʾ (-āʾ)*
pl. m.	*mlkn (-īn)*	*mlky (-ay)*	*mlkyʾ (-ayyāʾ)*
sg. f.	*mlkh (-ā(h))*	*mlkt (-āt)*	*mlktʾ (-atāʾ)*
pl. f.	*mlkn (-ān)*	*mlkt (-āt)*	*mlktʾ (-ātāʾ)*

In the classical Eastern dialects of the Common Era, the determinate force of the emphatic state is lost, whereby final *-ā* on nouns becomes the unmarked state. The now marked, absolute state is then limited to predicative and distributive constructions in a manner reminiscent of Akkadian, the influence of which on this usage may be suspected. In those dialects, as well as Hatran and sometimes in Palmyrene, the unmarked pl. m. suffix is normally *ē* rather than *-ayyā* (cf. Adjectives, below).

Adjectives

Adjectives probably were originally limited to the passive participles and the related form *kattīb*. In the later dialects, in particular in Syriac, the originally gentilic suffix *-āy* (Note plural emphatic: *-āyē*) is widely and freely used as an adjectivizing morpheme.

Prepositions

A distinctive characteristic of the development of new prepositions is the combination of the simple common Semitic prepositions with specific nouns of place, cf. for example Jewish Palestinian Aramaic *mn ʾpy* 'from the surface', *mn lwwt* 'from the presence', *mn gb* 'from the top', *mn byny* 'from between' and so on.

Numerals

Cardinals

The Common Aramaic system is as follows:

	Masculine	Feminine
1	*ḥad*	*ḥ^{a}dā*
2	*trēn*	*tartēn*
3	*t^{a}lātā*	*t^{a}lāt*
4	*ʾarb^{ac}ā*	*ʾarba^c*
5	*ham^{i}šā*	*ḥ^{a}miš*
6	*šittā*	*šit*
7	*šab^{c}ā*	*š^{a}ba^c*
8	*t^{e}mān^{i}yā*	*t^{e}mānē*
9	*tiš^{c}ā*	*t^{i}ša^c*
10	*^{c}esrā*	*^{ca}sar*
11	*ḥad ^{ca}sar*	*ḥ^{a}dā ^{c}asrē*
12	*trē ^{ca}sar*	*tartē ^{c}asrē*
20	*^{c}as^{a}rīn*	
30	*t^{a}lātīn*	
100	*miʾā*	
200	*miʾ^{a}tēn*	
1,000	*ʾ^{a}lip, ʾālip*	

As is usual in the Semitic languages, the later dialects evidence contraction in the teens, e.g., Syriac *ʾarb^{e}ta^{c}sar* '14'; Babylonian *trēsar* '12'. Compound numerals reference the larger units first.

Ordinals

Separate ordinals are used for 1–10. With the exception of 'second', they are simple adjectives in *-āy* with 3–10 using the pattern *k^{a}tībāy*: *qadmāy* 'first'; (NB) *tinyān* (Syriac *taryān*) 'second'; *t^{a}lītāy* 'third'; *r^{a}bī^{c}āy* 'fourth', etc.

Fractions
Fractions are nouns with the pattern *kutb* (some *kitb*); e.g., *ḥumš* 'a fifth'.

Verbs

Root Classes
As in the other Semitic languages, the fundamental opposition in the verbal system is that between active verbs (i.e., verbs *per se* in Western languages) and stative verbs (i.e., adjectives in Western languages). Morphologically, that distinction is reflected in the thematic vowel pair ablaut between the "perfect" and "imperfect" finite forms: active *kᵃtab/yiktub* (termed thus a/u); stative *kᵃteb/yiktab* and *kᵃtub/yiktab* (termed thus i/a and u/a). Diachronically, the drift is toward increasing the membership in the active class at the expense of the stative, and many intermediate forms (intermediate in terms of both morphology and semantics) occur in the various dialects.

Derivation Classes
Verbs: The three fundamental themes are the basic theme (*peʿal: katab/yiktub*, etc.), factitive theme (*paʿʿel: kattib*), and causative theme (*hafʿel: haktib*). In the oldest dialects, passives are expressed by internal vowel modification of the active form (presumably using the vowel pattern *u-a* in the derived conjugations). Middle Aramaic has a basic theme passive *pᵃʿīl* in the perfect – identical with the passive participle. No certain N theme is attested in normative Aramaic, though it does occur at Deir Alla and, possibly, in Samalian. Reflexive/middle derived themes with a *taw* augment (*ʾtpʿl*), that will soon begin to replace the internal passives, are still rare in the earliest period. At Fakhariyah, the reflexive of the basic theme still has infixed *taw*, as in Arabic and Ugaritic.

Morphosyntactic changes in Imperial Aramaic include: limitation of the use of internal passives in favor of the *ʾt-* preformative themes. (In this period only the *ʾetpᵃʿel* and *ʾetpaʿʿal* are attested. Internal passives seem to have survived longest in the causative conjugation. Biblical Aramaic word initial *ht-* is undoubtedly a Hebraism.)

The *hafʿel* reflexive/passive *ʾettafʿal* occurs in all later branches of Aramaic, so it must have already existed in the Imperial Aramaic period. After the demise of the internal passives, then, the following symmetrical pattern of theme formation is distinctive to Aramaic:

Basic	*kᵉtab*	*ʾetkᵉteb*
Factitive/Pluralitive	*katteb*	*ʾetkattab*
Causative	*ʾakteb*	*ʾettaktab*

Though a substantial group of derived themes in *š-* and *s-* occur, some borrowed from Akkadian, others, no doubt survivals from an earlier stage of the language (e.g. *šaklel* 'to complete', *šaʿbed* 'to enslave') the *šafʿel* is not a productive

causative conjugation in Aramaic.

Aspect and Tense
Formatives for the perfect (suffixed) tense/aspect are:

	Singular	Plural
1c.	*-it* (earlier *-tu*)	*-na*
2m.	*-t(a)*	*-tum > -ton*
f.	*-t(i)*	*-tin > -ten*
3m.	*-Ø*	*-u*
f.	*-at*	*-u/a/in*

Imperfect (prefixed) formatives are as follows. (The vowel of the prefix varies with theme and root category, of course.):

	Singular	Plural
1c.	*ʾ-*	*n-*
2m.	*t-*	*t- -ūn*
f.	*t- -īn*	*t- -ān*
3m.	*y-*	*y- -ūn*
f.	*t-*	*y- -ūn/ān*

The Eastern dialects of the classical period use *l-* (Babylonian) and *n-* (Syriac and less frequently in Babylonian) preformatives instead of *y-* in the 3rd person. In the late Western dialects, the first person preformative is *n-* in the singular as well as in the plural.

Additionally, a separate jussive form exists in the early dialects, differing orthographically from the imperfect in its absence of "nunation" in the pl. 3m. and pl. 2m. (and, presumably, the sg. 2f., as in later Aramaic) and in final weak roots, where the imperfect ends in *-h* (presumably /e/), the jussive in *-y* (probably, simply /i/!). The two forms are also distinct when they have pronominal suffixes, where (as in Hebrew) the imperfect inserts the so-called "energic" *nun* between the stem and the suffix, while the jussive does not. Samalian uses jussive-like forms for the imperfect as well (cf. standard Hebrew *yiktᵉbû* as opposed to archaic *yiktᵉbûn*). In Fakhariyah, Mesopotamian, and Samalian, the 3rd person jussive takes a *lamed* preformative instead of a *yod* (cf. the Akkadian precative *liprus*), a form apparently ancestral to the later *l-/n-* preformative of the Eastern Aramaic dialects. It is now clear that the so-called "imperfect consecutive" (the old fashioned term "converted imperfect" is a glaring misnomer) narrative tense – an archaic remnant of the old Semitic preformative preterite tense – attested in the Zakkur and Tel Dan ninth-century BCE inscriptions as well as at Deir Alla (but not at Sam'al), was a feature common to Old Syrian, Aramaic and Hebrew, just one of the many grammatical and lexical isoglosses in respect to which Hebrew sides with early Aramaic over against Phoenician.

Verbal Nouns

The classical infinitive of the basic stem is *miktab*. The derived stems show sub-
stantial variation, e.g. for the causative:

SLA	*ʾaktābā* (*ʾaktābūt-* before suffixes)
Western	*maktābā* (but *ʾaktābā* as a verbal noun)
Syriac	*maktābū*
Babylonian	*ʾaktōbē* (also in proto-Eastern Neo-Aramaic)

The morphology and syntax of the infinitive in Old Aramaic now appears to be
much more Hebrew-like than previously thought. In Syrian Old Aramaic a dis-
tinct, suffixless "infinitive absolute" is attested (cf. Sefire III:2 *hskr thskrhm* 'you
shall certainly hand them over'; IIIy verbs show final -*e*, cf. III:6 *rqh*), while the
"construct" infinitives (verbal nouns) of the derived stems have a feminine ending
(*ḥzyh* 'to see'; *lhmtty* 'to kill me' (note the nominal rather than the objective pro-
nominal suffix)). In the basic theme, Fakhariyah has the *mem* preformative known
from later Aramaic, whereas the other dialects, again like Hebrew, have so far
yielded only forms without the *mem*. On the other hand, at Fakhariyah the derived
theme verbal noun seems to be without feminine ending. The *peʿal* passive parti-
ciple is *paʿīl* (cf. Hebrew *pāʿûl*).

In the Jewish Literary Aramaic dialect ('Targum Onkelos' and 'Jonathan to the
Prophets'), a separate "infinitive absolute" form is also used in the basic stem
(*miktāb* as opposed to *miktab*) to translate the equivalent Biblical Hebrew form.

As the original participle (*kāteb*) became a true present tense, a new, nominal
participle *kātōb* developed.

Adverbs and Other Parts of Speech

True adverbs are originally limited to temporals and modals. Later, adverbs are
mostly nouns and adjectives in the adverbial case (see p. 123). Some prepositions
and compound prepositions, such as *bᵉgō* 'within', are also used adverbially.

Syntax

Word Order

In Old Aramaic (with the exception of strongly Akkadianizing Mesopotamian
texts), word order is generally of the standard Semitic VSO type, allowing for em-
phasis by the fronting of any element. Imperial Aramaic evinces a tendency to-
ward verb-final order, especially in infinitival verbal clauses. That this tendency
reflects literary artifice alone (as an attempt to mimic the Aramaic of native Per-
sian speakers) is evidenced by the fact that it does not continue into later periods,
which reflect, rather, the normal Semitic drift from VSO to SVO type. In the clas-
sical Eastern dialects in particular, word order in the verbal phrase may be said to
be free.

A distinct difference between the Eastern and Western dialects is the synthetic present tense formed by the combination of participle and personal pronoun. In the East, as in Standard Literary Aramaic, the proniminal element follows the verb (see p. 121). In the West, it precedes it: thus 'I am writing' *kātēb-nā* vs. *ʾᵃnā kātēb*.

Agreement

The unmarked gender is masculine, with gender agreement regular in the singular and lax in the plural. Number agreement is regular except – as in Hebrew – in verb-initial clauses with a compound subject, where singular verbs predominate in the earlier texts.

Assertions, Negations

The 3rd person pronouns are used as copulas from early on, with forms of the verb *hwy* 'to be', used in equivalent verbal (i.e. non-present) contexts (see p. 121). Enclitic forms of *hwy*, both conjugated forms and frozen sg. m. form of the perfect (*hᵉwā > wā*), become widely used as aspectual modifiers in the later dialects.

'There is' is *īt(ay)* (*ʾit + kā* 'here' > *ʾikkā* in Babylonian; 'to have' is expressed with this pseudo-verb plus the proclitic preposition *l-*, as in Hebrew). The negative equivalent is *lāʾ + ʾīt > layt/let* (Babylonian *lekkā*). The negative is regularly conjoined with pronominal suffixes as a negative copula, a usage found, but less frequently, with the positive as well.

The common negative is *lā(ʾ)*, which also replaces the earlier *ʾal* in vetitive use beginning with the Middle dialects (a process coterminous with the demise of separate jussive verbal forms).

Questions

In all dialects, the common Semitic interrogative pronouns are used for explicit information-seeking questions: *māh* 'what' (in Syriac also *mān* and *mōn*), *man* 'who', *ʾay* + demonstratives 'which'. In the earlier dialects, through the Middle Jewish Aramaic period, indicative sentences can be made interrogative by introducing them with the particle *ha-*, as in Hebrew. In Jewish Babylonian Aramaic and Mandaic the equivalent interrogative proclitic particle is *mī-*. The other later dialects apparently made do only with intonation cues and clause fronting of the interrogative focus.

Coordination

Phrasal Coordination

The general and all-purpose conjunction *wa* (> *wᵉ*), 'and', serves for both phrase level and clause level coordination from earliest times. The strictly consonantal orthography of the earliest texts does not allow us to determine if there were any differences of stress or vocalism such as occur between the conjunctive *waw* and the so-called "*waw* consecutive" clause level coordinator in Biblical Hebrew.

Clausal Coordination
In Old and Imperial Aramaic, temporal coordination is regularly expressed, as in Hebrew, by a nominal or participial clause coordinated to the main clause with simple *waw* (e.g. *wlʾ yklwn yqblwn ʿlyk ... wsprʾ znh bydk* 'they shall not be able to bring suit against you **while this document is in your possession**'. In later dialects, explicit temporal conjunctions (see p. 129) are used.

Conditionals
The conditional particle 'if' is *hin* (> *ʾin*), though it need not always be present. 'If not' is *hin + lā(ʾ)* > *ʾillā*, but also *lahin* in early texts. 'Lest' is *lma* and also *dilma*.

In Old Aramaic, the real future conditional is expressed with an imperfect in the protasis and a perfect in the apodosis. Later Aramaic evinces the imperfect both clauses.

Unreal conditions (no early examples are attested!) are expressed by augmenting the verbal form with the perfect of *hwy*.

Subordination
The determinative pronoun *di* becomes an all purpose relativizer *dᵉ-* in the classical dialects. It has four major uses: (1) simple relative (in which case it may be preceded by but rarely replaced by *ma* 'what' and *man* 'who'); (2) substantivizer (i.e. the old determinative function); (3) conjunctivizer – virtually any preposition can be turned into a "conjunction" by adding *dᵉ-* (e.g., *qudam* 'before' (prep.), *qudam dᵉ-* 'before' (conj.); some of these compounds, like *kad* 'when' and *mad* 'after' survive long after the demise of preposition itself); alone as a conjunction it means 'so that'; (4) genitive particle (see Non-verbal Expressions, below).

Among the most varied syntagms in Aramaic (as in Semitic generally) is the choice of verbal form in imbedded object clauses. 'In order to' and 'for the sake of' can be explicitly expressed with a *l-* preposed infinitive from earliest times. For complements of such verbs as 'to be able to' and 'to want to', however, preformative *yktb* is exclusively used in Old Aramaic and in formulaic Imperial Aramaic, presumably reflecting the proto-West Semitic "subjunctive" preformative in final *-a*. With the loss of final short vowels and the concomitant neutralization of the indicative/subjunctive opposition, infinitives generally replace the old subjunctive for a time. The force of drift is strong, however, so by the time of the Late Aramaic colloquials and Modern Aramaic we find that new subjunctives based on the present stem (the old participle *kateb, mkatteb*, etc.) have been formed. In all of the later dialects, clauses relativized with *dᵉ-* may also be used.

Non-verbal Expressions
The construct state is used almost exclusively in Old Aramaic for the genitive. As the emphatic/determined state became fixed in the language the need for distinctive levels of determination on the genitive developed, and three constructions are

used, which may be illustrated in the following example of 'the king's house', listed in the order of presumed increasing determinative force:

1   *bēt malkā*
2   *baytā d'malkā*
3   *bayteh d'malkā*

In pronominal possessive constructions, the use of the pronominal suffixes (as opposed to independent possessive pronouns) also diminishes over time, until, in Modern Aramaic, it becomes limited virtually to parts of the body and family members (i.e. 'my hand', 'your father'). Independent possessives are formed variously in the dialects with *dīl-* (*dī* + *l-*) and *dīd-* (< *dī* + *yad* 'hand').

Numerals
The cardinal numeral generally precedes its noun and is in the absolute state. When the noun is definite, however, the numeral is often in the construct state. In enumerative lists and measurements, the noun may precede the numeral. Ordinals are treated like other adjectives.

Further Reading
Valuable, detailed surveys and complete bibliographies can be found in:

Beyer, K. 1986. *The Aramaic Language*, trans. J. F. Healey from revised German of the first chapter of *Die aramäischen texte vom Toten Meer*, 1984. Göttingen: Vandenhoeck & Ruprecht. (Unfortunately, the *ex cathedra* pronouncements of the latter valuable but highly idiosyncratic work must be taken with a large grain of salt.)

Kutscher, E. Y. 1971. "Aramaic." Cols. 259–287 in volume 3 of *Encyclopaedia Judaica*. Jerusalem: Keter.

Segert, Stanislav. 1975. *Altaramäische Grammatik: Mit Bibliographie, Chrestomathie und Glossar*. Leipzig: VEB Verlag Enzyklopadie.

8 Ugaritic

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Ugaritic is the only well-attested example known today of the native languages of the Levantine area in the second millennium BCE. Various brief documents exist, as well as Amorite words in the Mari texts, or the "Canaanite glosses" in the texts from El-Amarna, but these highly fragmented sources cannot compare with the data from the Ugaritic language, for Ugaritic is attested in approximately 1,000 reasonably well-preserved texts (with many more fragments). The texts are written in an alphabetic cuneiform script on clay tablets and date to approximately 1400–1190 BCE. Only discovered in 1929 at modern Ras Shamra, ancient Ugarit, located on the north coast of Syria, they provide the sole coherent body of literature from the entire Northwest Semitic area for the period.

There are approximately fifty mythological texts in poetry, with the balance of the corpus in prose: religious (ritual, pantheon, votive); ominological (astral, malformed births, extispicy); epistolary; administrative (contracts, lists of many sorts); medical (hippiatric); and school texts (abecedaries, exercises).

These texts originated largely from the administration of the city of Ugarit. The administration was headed by a king, often in vassal position to a king of a larger political entity, particularly the Hittite king in the period documented. The average territory controlled by the city of Ugarit and where Ugaritic was spoken may have been approximately 2,000 square km.

The place of Ugaritic in the Semitic languages has been a matter of much dispute, in part because of a confusion of categories, namely, between linguistic and literary criteria. Literarily, the poetic texts show strong formal (poetic parallelism), lexical, and thematic affinities to Biblical Hebrew poetry. Linguistically, however, Ugaritic shows archaic features characteristic of old Canaanite and it may be a remnant of a Western "Amorite" dialect.

Finally, it is important to note that the Ugaritic language was only one of at least eight languages and/or writing systems in use at Ugarit, only one other of which is Semitic, namely, Akkadian, the international lingua franca of the time, in which approximately 2,000 texts are written, primarily epistolographic, legal, and administrative. Various numbers of texts have also been found in Sumerian, Hittite (alphabetic and hieroglyphic), Egyptian, Hurrian, and Cypro-Minoan.

The following presentation will constitute an uneasy truce between simple description and reconstruction. This is because the Ugaritic writing system does not

represent vowels. The reconstruction of the Ugaritic vocalic system must rely, therefore, on two types of internal sources: (1) the "extra" *'aleph* signs in the Ugaritic alphabet (see below); (2) Ugaritic words in syllabically written texts. The latter appear in three distinct forms: (a) the so-called polyglot vocabularies (Ugaritic words written in ancient "dictionary" entries); (b) Ugaritic words in Akkadian texts; (c) proper names (this source is less useful than the others because the bearers of the names may be of non-Ugaritic origin).

There is virtually no problem of periodization of Ugaritic, since it is only attested for approximately 200 years. It is becoming clear that more of the texts previously excavated must be dated to the late years of the city than has previously been believed to be the case and the concept of the evolution of the Ugaritic language towards a Phoenician-like form must be rejected.

Phonology
The vocalization of Ugaritic is largely reconstructed; the consonantal system is described primarily in terms of the graphemes rather than in phonetic terms.

The Abecedaries and the Consonantal Alphabet
The order of the alphabet is known from abecedaries and is similar to that of the later Northwest Semitic languages:

UG   å b g ḫ d h w z ḥ ṭ y k š l m δ n ẓ s ʿ p ṣ q r θ γ t i ů ś
NWS ʾ b g   d h w z ḥ ṭ y k   l m   n   s ʿ p ṣ q r š   t

The basic consonantal inventory consisted of twenty-seven phonemes; the origin of the last three signs is in dispute. The three *'aleph* signs are used to indicate /ʾ/ plus following vowel (e.g., ⟨å⟩ = /ʾa/), with ⟨i⟩ used for syllable-final /ʾ/.

The Consonantal Repertory
By comparison with other Semitic graphic and phonetic systems, the alphabet may be roughly arranged according to phonetic properties as follows:

p	t	θ	s (ś)	k	ḫ	ḥ	h
b	d	δ	z	g	γ	ʿ	ʾ
	ṭ	ẓ	ṣ	q			

In addition to these relatively clear two- or three-element sets, there is a series of continuants (*m* = bilabial, *n* = alveolar/palatal, *l* = lateral, *r* = apical or lateral, *š* = sibilant or lateral) and two semivowels (*w* = bilabial, *y* = palatal).

There is no sign for /ḍ/, which has fused with /ṣ/, nor for /ś/ (sign 30 of the alphabet does not correspond to later /ś/) which has probably fused with /š/.

The graphic system does not correspond precisely to the phonetic one. ⟨ẓ⟩ is used for etymological /ẓ/, but certain words containing etymological /ẓ/ are regularly written with ⟨γ⟩. In two texts, *CAT* 24 and RIH 78/14, ⟨ẓ⟩ is used for etymological /ṭ/. Etymological /δ/ is sometimes written ⟨δ⟩, but usually ⟨d⟩.

The Vocalic Repertory
The vocalic system is assumed to have consisted of six primitive vocalic phonemes, /a/, /i/, /u/, /ā/, /ī/, /ū/, to which two long vowels were added by monophthongization, /ê/ < /ay/ and /ô/ < /aw/.

The Writing System
The Ugaritic writing system is consonantal and claimed cases of *matres lectionis* are dubious.

Morphology
In the following tables "Ø" = unattested form; "-ø" = zero element.

Pronouns

Independent Pronouns

Nominative Case

Sg. 1c.	*ảnk/ản*	Du. 1c.	Ø	Pl. 1c.	Ø
2m.	*ảt*	2m.	*ảtm*	2m.	*ảtm*
f.	*ảt*	f.	Ø	f.	Ø
3m.	*hw*	3m.	*hm*	3m.	*hm*
f.	*hy*	f.	Ø	f.	Ø

Oblique Case
Separate forms are attested for the oblique case of the sg. 3m. (*hwt*), sg. 3f. (*hyt*), du. 3m. (*hmt*), and pl. 3m. (*hmt*).

Proclitic and Enclitic Pronouns
Pronominal elements of verbs were suffixed in the perfective, prefixed in the imperfective.

Pf.	Sg.	Du.	Pl.	Impf.	Sg.	Du.	Pl.
1c.	*-t*	*-ny*	*-n*	1c.	*ɔ-*	*n-*	*n-*
2m.	*-t*	*-tm*	*-tm*	2m.	*t-*	*t-*	*t-*
f.	*-t*	Ø	*-tn*	f.	*t-*	*t-*	*t-*
3m.	*-ø /-a/*	*-ø /-ā/*	*-ø /-ū/*	3m.	*y-*	*y-/t-*	*y-/t-*
f.	*-t*	*-t*	*-ø /-ā/?*	f.	*y-*	*t-*	*t-*

The du. 1c. -*ny* (also attested as a genitive enclitic) is an archaic retention.

Enclitic pronouns are attached to nouns, with a genitive function, and to verbs, with an accusative function (occasionally dative). The series is similar to the independent pronouns in the 3rd person only:

	Singular	Dual	Plural
1c.	-*y*/-*ø*/-*n*	-*ny*	-*n*
2m.	-*k*	-*km*	-*km*
f.	-*k*	Ø	-*kn*
3m.	-*h*	-*hm*	-*hm*
f.	-*h*	-*hm*	-*hn*

The forms indicated for the 1st person are distributed according to function: -*y*/-*ø* is genitive (i.e., attached to nouns), -*n* accusative (i.e., attached to transitive verbs). The first set is distributed according to the case of the singular noun to which the genitive suffix is attached (nom. = -*ø*; gen./acc. = -*y*).

Most of the dual forms were differentiated from identically written plural forms by vocalic pattern.

Demonstrative Pronouns
Demonstrative pronouns consist of the deictic particle *hn*+*d* (the same as the relative pronoun) or *k* (of uncertain origin). The forms are identical to those of the demonstrative adjectives (p. 136).

Relative Pronouns
Only the series based on *δ + vowel is used, nearly always written with ⟨d⟩.

d (sg. m.)   *dt* (pl. m. and f.; not used consistently)
dt (sg. f.)

Interrogative Pronouns
The interrogative pronouns attested are: *my* 'who?', *mh* 'what?'.

Indefinite Adjectives and Pronouns
mn and *mnk* designate human entities ('whoever'), *mnm* inanimate ones ('whatever'). The distinction between human and non-human referents was expressed by ablaut (perhaps /man-/ for humans, /mīn-/ for non-humans). -*k* and -*m* are expanding elements of uncertain semantic content.

Nouns
Nouns and adjectives are marked for gender, number, and case, but not for definiteness and only partially for state.

Gender

Sg. m.   = -∅
Sg. f.   = -*t* /-(a)t-/
Pl. m.   = lengthening of case vowel
Pl. f.   = -*t* /-āt-/

Number
Singular, dual, and plural are productive, marked by variations in the case vowel, with affixation of -m to the dual and plural.

Case
A triptotic case system (nominative, genitive, accusative) is used in the singular, a diptotic one (nominative, oblique) in the dual and plural. This system is demonstrated by the use of the ʾ*aleph* sign, e.g., sg. m. nom. ⟨ksù⟩ = /kussaʾu/, sg. m. gen. ⟨ksî⟩ = /kussaʾi/, sg. m. acc. ⟨ksà⟩ = /kussaʾa/; pl. m. nom. ⟨rpùm⟩ = /rapaʾūma/, pl. m. obl. ⟨rpìm⟩ = /rapaʾīma/.

There is not a separate vocative case. There are two lexical vocative markers, *l* and *y* (cf. Arabic *ya*), but a noun may be a vocative phrase without the use of a lexical marker.

The accusative case is used both for the object(s) and for various adverbial notions (see p. 141).

Some nouns, particularly those bearing a nominal suffix containing a long vowel (e.g., /-ān/, /-īt/), have a diptotic singular system: /-u/ subject, /-a/ oblique.

The case vowel is preserved in the first word(s) of genitive phrases while in the dual and the plural, the -*m* of the *nomen regens* is usually dropped: /malku/ 'king', /malku qarti/ 'the king of the city', /malkuha/ 'her king'; /mal(a)kūma/ 'kings', /mal(a)kū ʾarṣi/ 'the kings of the earth', /mal(a)kūha/ 'her kings'.

The noun may consist of (1) ROOT + internal vowel(s) (e.g., /MaLK-/ 'king'); (2) nominal prefix + ROOT + internal vowel(s) (e.g., /maLʾaK-/ 'messenger'); (3) ROOT + internal vowel(s) + nominal suffix (e.g., /RaʿaBān-/ 'famine'); (4) combination of 2 and 3 (e.g., /ʾaLʾiYān-/ 'mighty'). It is uncertain whether nouns of the *qatl*/*qitl*/*qutl* types had monosyllabic or bisyllabic stems in the plural. There are reduplicated (e.g., *qdqd* 'top of head', *ysmsm* 'beauteous') and quadriconsonantal (e.g. ʿ*rgz* 'walnut'?) nominal forms. The most common nominal prefixes are *m*- (concrete entities), *t*- (abstract entities); rarer are ʾ- and *y*- (both for concrete entities). The most common nominal suffixes are -*n* (/-an-/ or /-ān-/; usually concrete entities) and -*t* (abstract entities).

Adjectives
Adjectival morphology is like that of nouns (p. 134). Adjectives agree in gender, number, and case with the modified noun.

The primary adjectival suffix is the so-called *nisbe* ending consisting of vowel + -*y* (/-yy-/) + case vowel.

Comparative and superlative adjectival markers do not exist and such notions were expressed lexically (e.g., by forms of the root MʔD 'much') or syntactically (e.g. *nʿmt šnt il* 'the best years of El', a substantivized adjective in construct with a noun, literally 'the good ones of the years of El').

A nominal genitive formation is often used in place of an adjectival one, e.g. *aθt ṣdqh* /ʔaθθatu ṣidqihu/ 'the wife of his legitimacy' = 'his legitimate wife'.

Deictics

Demonstrative adjectives correspond to the demonstrative pronouns (p. 134): *hnd/k* (sg. m./f.; du./pl. m.), *hnd/k + t* (sg. f.). 3rd person independent pronouns could also be used as demonstrative adjectives (only the oblique case is attested: *mlk hwt* 'that king', *ḥwt hyt* 'that land').

The standard presentative particle is *hn*, functioning primarily deictically ('behold'), sometimes locally ('here'). The basic element is *h-*, for alongside *hn* one finds *hnn, hnny, hl, hln, hlny,* and *ht* (< /han+t/).

Numerals

The cardinal numbers are nouns, the ordinals are adjectives. In the numerals 3 through 10, the distribution of forms marked with *-ø* vs. *-(a)t* does not observe common Semitic "chiastic concord."

Forms

	Cardinals	Ordinals (where different)
1	*aḥd/aḥt* and *ʿšty*	?
2	*θn/θt*	
3	*θlθ/θlθt*	
4	*arbʿ/arbʿt*	*rbʿ*
5	*ḥmš/ḥmšt*	
6	*θθ/θθt*	*θdθ*
7	*šbʿ/šbʿt*	
8	*θmn(y)/θmnt*	
9	*tšʿ/tšʿt*	
10	*ʿšr/ʿšrt*	
11	*ʿšty ʿšr/ʿšrh*	
12	*θn ʿšr/ʿšrh*	
etc.		
20	*ʿšrm*	
etc.		
100	*mit* (Sg.)/*mat* (Pl.)	
1,000	*alp*	
10,000	*rbt*	

The only attested forms of the absolute case of the number '2' are *θn* and *θt* (*θnm* is adverbial, 'twice').

The presence of the ⟨h⟩ in the writing system shows that the origin of the element -*h* in ʿ*šrh* was consonantal.

The ordinals are not formed with the *nisbe* suffix, which would be written -*y*. Ordinals had a long vowel between the second and third radicals: /θiθθu/ (< /θidθu/) vs. /θadV:θu/.

In the number phrase, the noun denoting the counted entity may either be in the same case as the number or in the genitive case.

The preposition *l* is often used to join the unit to the ten in compound numbers, as in *θn l* ʿ*šrm* 'twenty-two'.

Verbs
The verbal system represents an archaic form of West Semitic with a variety of "stems."

Verbal Stems

G-stem (base stem, or simple stem; active and passive voices)
Gt-stem (-*t*- infixed after first radical of G-stem; middle/reflexive in function)
D-stem (doubled middle radical; factitive in function; active and passive voices)
tD-stem (*t*- prefixed to D-stem; middle/reflexive of D in function)
N-stem (preformative *n*-; middle/passive in function)
Š-stem (preformative *š*-; causative in function; active and passive voices)
Št-stem (-*t*- infixed after *š*- of causative stem; middle/reflexive of Š in function; only a few forms are attested and the stem may no longer have been productive)
L-stem (lengthened vowel after first radical and reduplicated second/third radical; intensive or factitive in function)
R-stem (reduplication of essential radicals: both radicals of biconsonantal root, second and third radicals of triconsonantal root; factitive in function)
tR- or   (*t* prefixed to first root consonant or infixed after first root consonant
Rt-stem of R-stem; factitive reflexive in function)

Aspects/Tenses
There are two verbal conjugations marked for person, gender, and number: STEM + PRONOMINAL ELEMENT and PRONOMINAL ELEMENT + STEM + (AFFIX in some forms). In prose texts the former is used for acts viewed as complete (perfective), the latter for acts viewed as incomplete (imperfective). In poetry the distribution of the two forms has to date defied complete description, though the use of the imperfective seems to reflect an older stage of the language, when the zero-ending *yaktub* (see p. 139) functioned as a preterite, like Akkadian *iprus*.

The two forms may be represented as *kataba* and *yaktub*. The perfective may have been characterized by internal ablaut for active (*kataba*) vs. stative (*katiba*, *katuba*), but all extant evidence is for the *katiba* type (⟨ik⟩, ⟨šil⟩). The imperfective was characterized by internal ablaut, perhaps for active (*yaktub-*) vs. stative (*yiktab-*). The imperfective is also marked, by affixation to the stem, for mood (see p. 139). The "Barth-Ginsberg" law (*yaktab → yiktab*) was operative.

No certain evidence exists for a present–future form corresponding to Akkadian *iparras*.

Two productive verbal forms are unmarked for aspect or person, the participle and the infinitive. Morphologically adjective and noun, respectively, they may also function verbally, i.e., complementation may be either accusatival or genitival.

The Participle
Each verbal stem has at least one verbal adjective (participle). If the stem is transitive, there was a participle for each voice, the active and the passive. The G-stem probably had two stative verbal adjectives, for a total of four: *kātib-* = active, *katib-* and *katub-* = stative, *katV:b-* = passive. All the derived stems except the N-stem form the participle with a prefixed *m-*.

The Infinitive
The pattern of the abstract verbal noun (infinitive) in the G-stem was not fixed, though *katāb-* was the most common for strong roots (*b šàl* [preposition *b* + infinitive] /bi ša'āli/). The infinitive in the derived stems was formed by ablaut: no *m*-preformative infinitives are attested.

There is a syntactic usage corresponding to the so-called "infinitive absolute" construction, but a productive separate form in contradistinction to the verbal noun did not exist. III-' roots show that the infinitive in absolute usage is in the nominative case: *hm γmủ γmỉt* /himma γamā'u γami'ti/ 'If you are indeed thirsty'.

Voices

Active and Passive
Active verbs are of two primary types, transitive and intransitive (e.g. /maḥaṣa 'êba/ 'he smote the enemy' and /halaka/ 'he went'); passive forms derive only from the transitive type.

Middle
Between the two extremes marked by the transitive and passive forms, there is a middle range of forms denoting reflexivity, reciprocity, advantage or disadvantage to actor, etc. These notions are clearest in the t-stems (Gt, tD, and Št). The primary function of the N-stem is to express patient-oriented acts and it is thus used for both the passive and the middle.

Moods

Moods are marked by variations to the imperfective stem.

The imperative has no preformative element and the stem vowel is the same as that of the imperfective: ROOT + stem vowel (+ AFFIX). To the basic imperative element may be added the /-a(n)(na)/ elements listed below. The imperative existed only in the second person and only for positive commands (negative commands are expressed by *àl* + jussive).

A second series of moods consists of the complete IMPERFECTIVE STEM + suffix. For ease of expression, the stem *yaktub-* will be used below for STEM.

YKTB + ø	= jussive	/yaktub/
YKTB + /u/	= indicative	/yaktubu/
YKTB + /a/	= volitive	/yaktuba/
YKTB + /an/	= energic 1	/yaktuban/
YKTB + /anna/	= energic 2	/yaktubanna/

The consonantal nature of the writing system often makes it difficult to distinguish among these forms.

Table 8.1   G-stem of strong verbs

		Perfective	Imperfective	Jussive	Imperative
Sg.	1c.	/katabtu/	/ˀaktubu/	/ˀaktub/	
	2m.	/katabta/	/taktubu/	/taktub/	/kutub(a)/
	f.	/katabti/	/taktubīna/	/taktubī/	/kutubī/
	3m.	/kataba/	/yaktubu/	/yaktub/	
	f.	/katabat/	/taktubu/	/taktub/	
Du.	1c.	/katabnayā/?	/naktubā/?	/naktubā/?	
	2m.	/katabtumā/	/taktubā(ni)/	/taktubā/	/kutubā/
	f.	Ø	Ø	Ø	Ø
	3m.	/katabā/?	/yaktubā(ni)/ or /taktubā(ni)/	/yaktubā/ or /taktubā/	
	f.	/katabtā/?	/taktubā(ni)/	/taktubā/	
Pl.	1c.	/katabnū/	/naktubu/	/naktub/	
	2m.	/katabtum(u)/	/taktubū(na)/	/taktubū/	/kutubū/
	f.	/katabtin(n)a/	/taktubna/?	/taktubna/??	/kutubā/?
	3m.	/katabū/	/yaktubū/ or /taktubū/?	/yaktubū/ or /taktubū/?	
	f.	/katabā/?	/taktubna/?	/taktubna/??	

Particularly doubtful reconstructions are indicated with one or more question marks. More complete sets with proposed vocalizations can be found in Segert 1984.

Infinitive: /katāb-/ and others.

Participles: active /kātib-/, passive /katūb-/, stative /katib-/ and /katub-/.

Some Details of the Verbal System

3rd person dual and plural imperfectives often have preformative *t*-, rather than *y*-.

The N-stem imperative had /i/ in the preformative syllable (*išḫn* /ʾiššaḫin-/ < /*ʾinšaḫin-/ 'be hot!'), as did the Gt perfective.

The Gt and tD were characterized by different stem vowels in the imperfective: *yštil* (Gt) vs. *yštȧl* (tD) 'ask, importune'.

The D-stem had /a/ in the preformative of the imperfective (*àrḫp* /ʾaraḫḫip-/ 'I shall have (something) soar') and /u/ in the preformative of the participle (cf. the syllabically spelled proper name *mu-na-ḫi-mu*).

Several nouns, non-participial in form, are formed from the Š-stem: *šʿtqt* 'she who causes to pass on', *šmrr* 'that which causes bitterness (venom)'.

There was no H-causative (*hiphil*) or ʾ-causative (*aphel*) alongside the Š-causative.

Some Peculiarities of "Weak" Roots

Some I-ʾ*aleph* roots show vagaries in orthography that indicate mutation of the ʾ*aleph* (quiescence, "secondary opening"?): *yiḫd* vs. *yuḫd*, both 'he seizes'.

I-*y/w* roots have become I-*y* in the perfective. Imperfectives usually show a bi-syllabic stem, with /a/ in the prefix syllable: *àrd* /ʾarid-/ 'I descend'.

Hollow roots have no middle consonantal element. Imperfectives usually have preformative vowel /a/: *àbn* /ʾabīn-/ 'I understand'.

III-*w* roots have shifted to III-*y* (exceptions are attested for *àšlw* 'I relax' and *àtwt* 'you have come'). The ø-ending imperfective (jussive, historical preterite) has monophthongized (/*yabniy/ → /yabni/) but usage is not consistent in the poetic texts and use of historical writing (i.e., /yabni/ = ⟨ybn/ybny⟩) may be at the origin of some forms.

Adverbs, Conjunctions, Prepositions, Enclitic Particles

Adverbs

Adverbials may be expressed by adverbial lexemes or by adverbialization of a noun, i.e., by prefixing a preposition, by use of the accusative case, or by suffixation of an adverbial morpheme.

Local and temporal adverbs:

- Basic local and temporal adverbial notions are expressed by lexemes which may be expanded by enclitic particles: *hn, hnn, hnny* 'here', *hl, hlh, hlny* 'here', * θm, θmn, θmny* 'there', *ʿt* 'now', *ht* rhetorical 'now' (*hn+-t*), *àp* 'also', *ʿln* 'above' (= *ʿl+-n*).
- Interrogative adverbs are *iy* and *àn* 'where?', *ik(y)* 'how?', *lm* (probably *l* 'to/for' + *m* 'what?') 'why?'.
- Negative adverbs are *l* (indicative), *àl* (volitive).
- Prepositional adverbialization is common, e.g., *l ʿlm* 'for a long time' (*l* = 'to', *ʿlm* = 'long time').

- The accusative case is used for otherwise unmarked nominal adverbials, e.g., *qdqd* 'on the head', *ym* 'for a day', *šmm* 'to the heavens'.
- The two most common adverbial suffixes are -*m* and -*h*. The first appears on virtually all parts of speech and its function has not yet been precisely defined. The second is used in the nominal system and has various functions, local and temporal being most common, e.g., *šmmh* 'to the heavens', *ʿlmh* 'for a long time'.

Conjunctions

The most common coordinating conjunction is *w*-, capable of linking phrases at all levels (word, clause, sentence, paragraph). *p* is much rarer and usually denotes cause-and-effect linkage (see Coordination, p. 143). *ủ* functions both independently and correlatively (*ủ* ... *ủ* = 'either ... or'). Two lexemes are written ⟨ủ⟩: (1) /ʾū/ 'and'; (2) /ʾô/ (< /*aw/) 'either/or'. *ảp* 'also' functions most commonly at the paragraph level.

The most common subordinating conjunction is *k* 'because, when, if'. Both *im* and *hm* are attested as conditional conjunctions ('if').

Prepositions

The number of primary prepositions is small (*ảḫr* = 'after', *b* = 'in', *k* = 'like', *l* = 'at', *ʿd* = 'up to, until', *ʿl* = 'upon', *ʿm* = 'with', *tḥt* = 'under'); there are also complex prepositions (e.g., *b+yd* = 'in the hand of, under the management of'; *b+tk* = 'in the midst of'; *l+pn*, 'face' = 'in front of'). Each preposition has a variety of translation values, e.g., *b* = 'in, within, through, by the intermediary of, by the price of, from'. There is no specific prepositional lexeme expressing the ablative 'from, away from'; the real-world notion of separation is expressed by verb/preposition idioms in which a number of prepositions are used.

The substantive following a preposition is in the genitive case (*l ksỉ* /lê kussaʾi/ 'to the chair/throne').

The case system still being in force, no prepositional particle has developed to mark the object (contrast *ʾyt/ʾt/wtyt* in the later Northwest Semitic languages).

Enclitic particles can be joined to all parts of speech and are capable of accretion one to another.

-*d* = relative pronoun that can function as a compounding element with other particles (e.g., *hnd* 'this')

-*h* = adverbial (see above)

-*y* = enclitic particle, particularly as expander to another particle (e.g., *hn+n+y*)

-*k* = enclitic particle in *hnk* 'that'

-*m* = enclitic particle used on all parts of speech (see above)

-*n* = enclitic particle used on all parts of speech.

Syntax

The relative dearth of prose texts makes it difficult to ascertain a normative prose syntax, while the lack of vocalized texts makes some aspects of morpho-syntax difficult to ascertain precisely.

Word Order

Order of Morphemes
Details have been indicated above and only a summary is here provided.

Pronoun: (deictic element *ȧn* +) pronoun
Noun/Adjective: (nominal prefix) + STEM (+ nominal suffix) + gender/
          number/case (+ genitive pronominal element)
Deictics: deictic + expanding enclitic particles
Verbs: perfective = STEM + subjective pronominal element (+ objective
          pronominal element)
        imperfective = subjective pronominal element + STEM (+ AFFIX)
          (+ mood marker) (+ objective pronominal element)

Phrase Level
The simple verbal phrase is by definition a sentence: SUBJECT + PREDICATE (imperfective) or PREDICATE + SUBJECT (perfective). The verb phrase may be expanded by addition of an independent pronoun for "emphasis," creating a formal *casus pendens* (e.g., *ȧtm bštm w ȧn šnt* 'as for you, you may tarry but as for me, I'm off'). The independent pronoun may precede or follow the verbal unit.

There are two primary nominal phrases: the genitival and the adjectival.

The genitival phrase is the common Semitic "construct state": X of Y. The first element is in the case required by context, the second in the genitive. It can denote the relationships well known elsewhere (subjective genitive, objective genitive, genitive of identification, genitive of material, etc.). No lexical or pronominal element may intervene between the members of a construct chain, only enclitic particles.

The adjectival phrase is of two types, (1) the phrase level or attributive, in which the adjective follows the noun and agrees in gender, number, and case, and (2) the sentence level or predicative, in which the adjective may either precede or follow the noun and agrees in gender, number, and case. An attributive adjective modifying any member of a construct chain must come at the end of the chain (e.g., *ḥbr kθr ṭbm* 'the companions of Kothar, the good ones').

Sentence Level
Word order is essentially free with fronting used for topicalization.

Agreement
Personal pronouns agree in person, gender, and number with an appositional ver-

bal form (*ảnk ảḥwy* 'I give life'); in gender, number and case with an appositional or predicate noun (*ảt ủmy* 'you, my mother') and with predicate adjectives (*dbḥn ndbḥ hw* 'the sacrifice, sacrificed is it'). The relative pronoun agrees in gender and number and probably in case with its antecedent. Demonstrative pronouns and adjectives agree in gender, number, and case with the modified noun.

Assertions, Negations
The primary asseveratives and negatives were written the same but had different vocalizations: *l* = /lāʿ/ 'not', /la/ 'indeed'; *ảl* = /ʾal/ 'must not', /ʾallu/? 'must'. These particles are placed immediately before the word they modify, usually a verb, sometimes another part of speech.

Questions
The interrogative pronouns and adverbs are *my* 'who?', *mh* 'what?', *iy/ản* 'where?', *ik* 'how?', *lm* 'why?'. There is no proclitic interrogative particle. The interrogative particles normally come at the head of the sentence.

Coordination
Coordination is indicated most commonly by *w-*, by *p-* when effect is denoted (see Conjunctions, p. 141). Asyndesis is frequent at the sentence (and paragraph) level, common at the phrase level.

Conditions
Conditions may be marked by *hm* or (rarely) *im* and usually precede the main clause. Conditional clauses may be unmarked. A lexical distinction between real and irreal conditions is as yet unknown. The main clause following the conditional clause may or may not be preceded by the so-called *w* or *p* of apodosis.

Subordination
The principal types of subordinate clauses are (1) relative, (2) conditional, and (3) a variety of temporal/circumstantial, causal, resultative, and completative (object) clauses most commonly introduced by *k* /kī/ when lexically marked. The concept of "subordinate" clause is rendered murky by the frequent use of the so-called *w* (or more rarely *p*) of apodosis, i.e., heading the main clause with *w* or *p* when it follows the logically subordinate clause.

Relative clauses
Explicit relative clauses are preceded by *d/dt*. Relative adverbials are usually marked (*ảdrm d b grn* 'the leaders who are at the threshing floor'). Unmarked relative verbal clauses are rare.

   The relative pronoun functions both at the phrase level (*il d pảd* 'god of mercy') and at the sentence level (*il … d yšr* 'the god … who sings'). It may either have an explicit antecedent, or be used absolutely (*d in b bty ttn* 'What is not in my house shall you give').

Lexicon

Ugaritic fits the common Semitic patterns in kinship terms (*àb* 'father', *ùm* 'mother'), tree names (*àrz* 'cedar'), geographical terms (*nhr* 'river'), with some notable peculiarities, e.g., *ḥwt* /ḥuwwat-/ 'land (geographical–political entity)', alongside *àrṣ* 'earth, ground' and *bld* 'homeland'. The primary verbs of movement resemble those of the Hebrew/Phoenician group rather than those of Aramaic or Arabic: *hlk* 'go', *yrd* 'descend', *ʿly* 'ascend', *bʾ* 'enter' (alongside *ʿrb*), *yṣʾ* 'exit', *θb* 'return'. Some verbs of movement that can also denote the state attained are: *qm* 'arise', *škb* 'lie down', *ʿmd* 'stand', *rkb* 'mount'. Motion verbs peculiar to Ugaritic are *tbʿ* 'go away', *myy* 'go to, arrive at', and QL Št-stem attested only in poetry, in the imperfective, *yštql* 'he arrives'. Expressions of existence resemble the later Northwest Semitic pattern: there are positive and negative quasi-verbs, *iθ* and *in*, as well as the verb *kn*, which corresponds to the regular verb 'to be' in Phoenician and Arabic.

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RIH = text discovered at Ras Ibn Hani

RS = text discovered at Ras Shamra

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9 Ancient Hebrew

Richard C. Steiner

This chapter is dedicated to my esteemed teacher, Professor Henry M. Hoenig-swald. (For the system of transliteration employed in this chapter see note p. 172)

Ancient Hebrew was the language of the Israelite tribes who, at the beginning of the first millennium BCE, established a united kingdom in the land formerly known as Canaan. After the reigns of David and his son, Solomon, the united kingdom split into the northern kingdom of Israel and the southern kingdom of Judah, the latter remaining loyal to the Davidic dynasty in Jerusalem, the former being ruled by a series of dynasties until its destruction by the Assyrians in 722 BCE.

The Babylonians conquered Judah in 586 BCE, exiling its people and razing the Temple that Solomon had built in Jerusalem. The Persians, who made Judah a province of their empire, allowed Jewish exiles to return and rebuild the Temple. The Hellenistic period saw the rise of an independent Judean state under the Hasmonean dynasty. The Romans brought an end to this independence, appointing Herod as their governor. Two revolts against the Romans had disastrous results. The first ended in the destruction of the Second Temple in 70 CE. The second, led by Bar-Kokhba in 132–135 CE, emptied Judea of its Jewish inhabitants; those who were not killed or deported fled to Galilee in the north.

The two great bodies of literature in ancient Hebrew, composed during the period when it was a living language, are biblical literature and tannaitic (early Rabbinic) literature, including the code of Jewish law known as the Mishnah and legal commentaries to the Pentateuch such as the Mekhilta, the Sifra and the Sifre. (All of the citations from tannaitic literature in this chapter are from reliable vocalized manuscripts; they may disagree with standard editions and dictionaries.) The oldest dated manuscripts of these works are from the ninth century CE, but almost all of the biblical books are represented among the fragmentary scrolls from the Dead Sea (Qumran), believed to date from around the first century BCE. Among the Dead Sea Scrolls are also Hebrew versions of apocryphal books such as Jubilees (previously known from translations into Greek, Ethiopic, etc.), as well as Hebrew works authored by the Qumran sectarians themselves. There are also hundreds of inscriptions written by native speakers, ranging in time from *c.* 1200 BCE to 132–135 CE (Bar-Kokhba letters). The Canaanite glosses written in cuneiform script in the Akkadian letters found at El-Amarna, Egypt, are from pre-

Israelite Canaan (fourteenth century BCE), but they are so similar to Hebrew that they are regularly cited as evidence for Proto-Hebrew.

The language of the Hebrew Bible is by no means monolithic. There is enough variation to justify distinguishing Standard Biblical Hebrew (SBH; before 500 BCE) from Late Biblical Hebrew (LBH; after 500 BCE) and both of these from the archaic poetic dialect. The relative clause, for example, is introduced in SBH by *ʾăšär* 'that', but there is also an unrelated and more archaic dialectal counterpart *ša+* > *šä+* which becomes increasingly common in LBH; in the poetic dialect, these conjunctions are sometimes replaced by the archaic *zu*^{w}, and asyndetic relative clauses are common.

Mishnaic (or Middle) Hebrew (MH) used to be viewed as an artificial scholastic jargon, but the prevalent view today is that MH was a colloquial idiom spoken until *c.* 200 CE and that it was descended from an older colloquial idiom (hereafter: Pre-MH) spoken in the biblical period. According to this view, LBH is a purely literary language whose non-SBH features come from Pre-MH.

MH frequently exhibits the culmination of developments begun in SBH and continued in LBH. Thus, the word *ʾe^{y}ḳä^h* 'how' in the archaic poetic dialect changes to *ʾe^{y}ḳ* in SBH, then to *he^{y}ḳ* in LBH and finally to *he^{yy}äḳ* in MH. Similarly, the perfective ≠ habitual opposition could be expressed in Proto-Northwest Semitic only in the past tense. In SBH, we find a new habitual future, in LBH, a new habitual infinitive, and in MH, a new habitual imperative (see p. 158).

On the other hand, MH *täpi^{y}l:ä^{h}zo^w* 'this prayer' (Berakhot 4:2), with its *t*-less and article-less demonstrative adjective reminiscent of Phoenician, is actually more archaic than its SBH counterpart, *hat:äpi^{y}l:ä^h haz:o'ṭ* (2 Sam. 7:27). The same goes for the MH relative conjunction *šä+* in comparison with SBH *ʾăšär* (see above and Relative Clauses, p. 171). The biblical evidence shows that the absence of the article is characteristic of the archaic poetic dialect (see above) and that *zo^h/zo^w* and *šä+* were features of Pre-MH and of the northern dialect(s) of Hebrew. Clearly, MH is not a direct lineal descendant of SBH.

The literature of the Qumran sectarians, despite its being preserved in ancient copies, is, in some ways, a more problematic source for reconstructing the history of Hebrew in ancient times. Most scholars believe that the language of this literature owes more to imitation of the Bible than to the Hebrew vernacular of the period.

Other aspects of the sociolinguistic interplay of dialects (regional and social) and languages in Palestine are reflected in various biblical and Talmudic passages: Judg. 12:5–6, Isa. 36:11–13, Neh. 13:23–24, Bava Ḳamma 82b–83a, ʿAvodah Zarah 58b, Ḥullin 137b, and Pal. Talm. Berakhot 4d, Megilla 71b.

Information about regional dialects can also be gleaned from inscriptions and biblical compositions whose geographic origin is known. It has been shown that the Hebrew of the northern kingdom, unlike that of the southern kingdom, differed from SBH in important respects, at least partly as a result of Phoenician influence. Some "northernisms" (e.g., *šä+* and *zo^h/zo^w* discussed above) are standard features of Pre-MH (especially in Ecclesiastes and Song of Songs) and MH; others

(e.g., *šat* 'year' and unconditional monophthongization of *ay* and *aw*) are not.

Orthography and Phonology

Consonants: Phonology

Hebrew exhibits both the loss of old consonants and the creation of new ones. Seven of the Proto-Semitic fricatives were lost by merger at various times: the interdentals *ṯ* (> *š*), and *ḏ* (> *z*) *ṭ* (> *ṣ*), the laterals *ϟ* (> *ś*) and *ϟ* (> *s*), and the uvulars *ḫ* (> *ḥ*) and *γ* (> *ʿ*). In return, seven new consonantal phones were created. An emphatic *ṗ* was created to render the unaspirated *p* of Iranian and Greek, and six fricatives *b̄*, *ḡ*, *ḏ*, *k̄*, *p̄*, *ṯ* [v γ ð x f θ] were created as a result of the assimilation of non-emphatic, ungeminated stops to preceding vowels.

These opposing developments did not exactly cancel each other out. Although four of the seven lost fricatives were restored, the old fricatives were phonemes while the new fricatives were all allophones of stops, conditioned by a preceding vowel, at least in the beginning. (Eventually most of them were phonologized via secondary split, when some of the conditioning vowels were deleted.)

In addition, the language was left with a large concentration of labial phones: [p b ṗ f v w m]. Three of these phones were redistributed by a merger of /w/ with /b/, which seems to be attested already in the vulgar spelling of the Copper Scroll. In the Samaritan reading tradition, where the merger was unconditional, the merger product originally had three allophones, distributed roughly as follows: [w] after /u/, [v] after other vowels, and [b] elsewhere. In the Tiberian tradition, the merger was more restricted, but there too *w* retained its original bilabial realization only after *u*, as in the name *Pwh*, read [puw:å] by the Tiberians and [fuw:a] by the Samaritans.

At the other end of the articulatory tract, in the pharynx and the larynx, there was a gradual reduction in the inventory for some speakers. By the tannaitic period, the Hellenized inhabitants of Beisan, Haifa, and Tivon had merged /ḥ/ with /h/ and /ʿ/ with /ʾ/. The mergers seem to have gone further among the Qumran sectarians and the Samaritans, but Jerome's descriptions and Arabic renderings of Hebrew toponyms (including Haifa and Tivon!) show that the loss of these consonants was far from universal.

Vowels: Phonology

Proto-Semitic /i:/ and /u:/ were retained unchanged throughout the history of Hebrew, but /a:/ became raised and rounded by the fourteenth century BCE in all or most environments. The evidence of the Tiberian reading tradition (see pp. 148–9) suggests that there were two raised and rounded allophones of /a:/, which in one instance yielded doublets: *kan:oʾ* = *kan:åʾ* 'zealous'.

Eventually, the inherited short vowels also developed allophones as did the upgliding diphthongs: [å:] and [ä] from /a/; [o:], [o] and [å] from /u/; [e:], [e], and [ä] from /i/; [o:] from /aw/; [e:] and [ä:] from /ay/. The merger of some of these allo-

phones resulted in a completely reorganized system in which the number of contrastive qualities was doubled and the role of quantity was greatly reduced.

Long [iː] and [uː] are in complementary distribution with [y] and]w], respectively, and alternate with them, e.g., [kǎliː] 'vessel' ~ [kälyšḱå] 'your vessel', [píːhuː] ~ [piːw] 'his mouth', [šǎk̲uː] 'lookout point' ~ [šǎk̲wíː] 'rooster', [yištaḥǎwǎː] 'he will prostrate himself' ~ [wayːištáḥu:] 'and he prostrated himself'. It is, thus, possible that the semivowels should be viewed as allophones of vowels rather than consonantal phonemes.

Consonants: Orthography

The Israelites adopted unchanged a twenty-two-sign version of the alphabet current in their area, even though they had preserved more than twenty-two of the twenty-nine Proto-Semitic consonants (see p. 147). Consequently, they were forced to use some signs with more than one value.

Only one instance of such polyphony survived long enough to be recorded by the Masoretes (see Vowels, below): ש *š* representing both /š/ and /ś/, the latter probably realized [ɬ] until it merged with /s/. Thus, *škwr* was read [šå:k̲úːr] < [šaku:r] when it had the meaning 'intoxicated', but [så:k̲úːr] < [ɬaku:r] with the meaning 'hired'.

Recently, there has been confirmation of an old theory positing two additional instances which survived only until the Hellenistic period: ח *ḥ* representing both /ḥ/ and /ḫ/; ע *ʿ* representing both /ʿ/ and /ɣ/. Thus, *ḥrym*, read [ḥo:ríːm] by the Masoretes, originally had two realizations: one with initial [ḥ] corresponding to the meaning 'nobles, freemen' and the other with initial [ḫ] corresponding to the meanings 'holes' and 'Hurrians' (see p. 147).

The polyphony of the letters *bgdkpt* recorded by the Masoretes has a different origin (see p. 147).

Vowels: Orthography

Another type of polyphony is that of *h*, *w*, and *y*. These three letters represented vowels as well as consonants, but only in a rudimentary, ambiguous fashion, since their use as vowel letters (*matres lectionis* 'reading aids') was not consistent in all positions, and the number of vowel phonemes was, in most periods, no less than six. Thus, ancient Hebrew had a highly homographic spelling which left much to the reader's imagination.

Such a situation was intolerable in the case of the Bible. Small wonder, then, that the Talmud contains many references to an accepted biblical reading tradition, mastery of which was essential for one who aspired to be a reader in the synagogue.

There were, in fact, a number of accepted reading traditions in use at the time in Palestine and Babylonia. They were reduced to writing in the post-Talmudic period by various schools of traditionists, called "Masoretes," through the insertion of "points" into the received consonantal text. The same signs were used to record reading traditions of MH. Reliable manuscripts show that there were many

differences between the reading traditions of MH and of BH – differences which have been partially obliterated in our modern printed editions.

The differences among the Masoretic reading traditions are, for the most part, differences of dialect rather than meaning. The Tiberian and Babylonian systems (each with several subsystems) distinguish seven and six contrasting vowel qualities, respectively, while the various Palestinian systems and subsystems distinguish five, six, or seven.

Stress, Length, and *Shewa*: Orthography and Phonology

The primary stress is normally marked by one of the Masoretic accent signs; secondary stress is frequently marked by the *gaʿya* sign. Both of them lengthen vowels – hence the name *gaʿya* 'lowing, mooing' given by the Tiberians and the alternative names used by later grammarians: *māṯāḡ* 'bridle' and *maʿămiʾḏ* 'restrainer'. The position of the primary stress – ultimate or penultimate – is contrastive, at least in BH, serving, for example, to distinguish the IIw sg. f. perfect from both its participial and its IIIy sg. m. counterparts (e.g., *šåḇåʰ* ≠ *šåḇåʰ* 'she returned ≠ returning; he captured'). The corresponding contrast between the IIw and IIIy plural perfects (e.g., *šåḇuʷ* ≠ *šåḇúʷ* 'they returned ≠ they captured', attested together in 1 Kings 8:48) seems to have been in the process of breaking down due to an increased tendency to stress the final syllable. In sg. 1c. and sg. 2m. forms of the perfect, the position of the stress is a tense marker (e.g., *måšåḥtå* ≠ *uʷmåšaḥtå* 'you anointed ≠ and you shall anoint' attested together in Exod. 40: 15; see p. 156).

Outside of closed unstressed syllables, which excluded long vowels, Ancient Hebrew had a contrast between long and short vowels. However, between the tannaitic period and the time of the Masoretes, short vowels in stressed syllables lengthened, erasing the contrast in those syllables. Thus, while Hebrew was still a spoken language, the *o* of infinitival *yåḵó(ʷ)l* 'be able' was long, while the *o* of sg. 3m. perfect *yåḵól* 'he was able' was short, like the ancestor of *å* in *yəḵåltåm*. In the Pre-Tiberian reading tradition, the *o* of sg. 3m. perfect *yåḵól* lengthened, splitting off from the ancestor of *å* in *yəḵåltåm* and merging with the long *o* of infinitival *yåḵóʷl*.

As a result of this change, length became to a large extent conditioned by stress. Outside of open unstressed syllables (where a length contrast survived), there was a simple rule: stressed vowels are long and unstressed vowels are short.

Non-systematic representation of vowel length through the use of *matres lectionis* (see p. 148) developed in SBH. These vowel letters are used to mark not only etymologically long vowels but also stressed vowels in pre-pausal position. In the Tiberian reading tradition, such vowels were probably no longer than other stressed vowels, but morphophonemic alternations show that a length difference had once existed, e.g. *tiškaḇ* ~ *tiškåḇ* < **tiškab* ~ **tiškāb*, *yəšalːaḥ* ~ *yəšalːeaḥ* < **yišalːeḥ* ~ **yišalːēḥ*.

Consonant length (like vowel length) was phonemic in Proto-Hebrew, but it was not represented in the biblical period, not even in an unsystematic way. Thus,

the spelling ʿrwmym was used for both members of the minimal pair Job 5:12 [ʿăruːmiːm] ≠ Job 22:6 [ʿărumːiːm] 'crafty (pl. m.) ≠ naked (pl. m.)'. And the spelling ntnw was used for both [nɑ̄tanːuː] 'we gave' and [nɑ̄tɑ̆nuː] 'they gave', even though the long n of the former results from the coalescing of the final n of the stem and initial n of the suffix ([nɑ̄tan+nuː]). It was only in MH that representation of consonant length began to appear, and even then, only in cases like [nɑ̄tan+nuː] and [kɑ̄rat+tiː], where a morpheme boundary was spanned. Thus, the citation of 2 Chron. 14:10 in the Mekhilta has nšʿnnw for Masoretic nšʿnw = [niš ʿan+nuː] 'we have relied'.

Most of the Proto-Hebrew minimal pairs are no longer valid for the Tiberian system. Many of the new pairs are problematic in some way, since a difference in consonant length normally entails some other difference – in vowel length, secondary stress, or type of *shewa* (see below). There is a kind of vicious circle involved in phonemicizing the words [yigːŭ ʿúː] ≠ [yìːḡ ʿúː] ≠ [yiḡ ʿúː] 'they will touch ≠ they will be weary ≠ they will moo': any pair one selects will differ in two or more features.

The fact remains, however, that the Masoretes considered consonant length important enough to create a sign for it ("strong" *dagesh*). Two minimal pairs noted by the Masoretes themselves are Job 5:12 ʿăruᵂmiʸm ≠ Job 22:6 ʿăruᵂmːiʸm (see above) and Lev. 7:30 tᵊbiʸʾᵊnɑ̊ʰ ≠ Lev. 6:14 tᵊbiʸʾänːɑ̊ʰ 'they (f.) shall bring ≠ you/she shall bring it'. Although Arabic transcriptions suggest that, in the first pair, the vowel preceding the lengthened consonant was shorter than the vowel preceding its unlengthened counterpart, the Masoretes clearly considered this difference to be secondary, unworthy of being represented.

The same goes for a pair like [ḥizkúː] ≠ [ḥizːäkúː] 'be strong ≠ they strengthened': the Masoretes use the same sign (whose name, *shewa*, comes from the word for 'nothingness') to represent the absence of a vowel following [z] in the first word that they use to represent the [ă] following [zː] in the second, thereby suggesting that [ă] (together with its positional variants: [ĭ], [ŭ], [ĕ], and [ŏ]) is an allophone of Ø. (Later grammarians use the terms "quiescent" for *shewa* realized as Ø and "mobile" for vocalic *shewa*.)

It is certainly true that [ă] (with its positional variants) is completely predictable in some environments: those where it is needed to break up a consonant cluster. In other environments, matters are far more complicated. For one subset of nouns, the most reliable sources seem to describe a form of metrical conditioning requiring that the secondary accent be separated from the primary accent by two syllables, one of them containing [ă], e.g., [hàːmähalːéːk] ≠ [hàːmhalːäkíːm] 'the walker ≠ the walkers'. But this is, at best, just a tendency, for there are also free variants like [hàːmdabːäríːm] / [hàːmädabːäríːm] 'the speakers' (the former in Exod. 6:27 and the latter in 2 Chron. 33:18 according to Aaron ben Asher; vice versa according to other Masoretic sources).

Such complex conditioning and free variation was completely eliminated by the increasingly schematic rules for the realization of the *shewa* sign promulgated by later grammarians. According to one of those rules, a *shewa* preceded by a long

vowel and a single consonant must have a vocalic realization (a zero realization would create an extra-heavy syllable); the closest counterpart to this in a masoretic treatise is a tendency rather than a categorical rule, and is largely restricted to *shewa* preceded by an *r*. Despite these differences, the Masoretes seem to agree with the later grammarians on the basic point: the vocalic realizations of *shewa* do not contrast with Ø.

Morphophonemic Alternations

The Tiberian reading tradition has an unusually large number of alternations, most involving vowels (usually the historically short ones) or semivowels. The great majority are – or were originally – conditioned by differences in stress, syllable structure, and/or the proximity of a laryngeal (/ʾ h ḥ ʿ/). A sample of some of the most common alternations among vowels other than shewa are shown below. The main stress is marked by ´ in context and by ˝ in (pre-)pause. Forms without either sign are proclitic.

/i/	/e/	/ä/	/a/	/å/	/o/	/u/
lib:+íʸ	léḇ	läḇ				
*tŏšiḇå̄ʸnå̄ʰ	tåšéḇnå̄ʰ					
	teléḏ	wat:éläd	telåḏnå̄ʰ			
	yŏšal:ḗaḥ		yŏšal:áḥ			
	to̓mḗr		to̓már			
		wat:ó̓mär	wat:o̓már			
		ʾäḥå̄ḏ	ʾaḥáḏ			
		ʾåräṣ	ʾarṣ+íʸ	ʾå̄räṣ		
			ʾåmár	ʾåmå̄r		
			dŏḇar+kå̄m	dŏḇå̄r+å̄m		
			kå̄l		kól	kul:+å̄m
					må̄tó̓ʷḵ	mŏtu̓ʷḵå̄ʰ
					tåšóḇnå̄ʰ	tŏšuḇå̄ʸnå̄ʰ

Alternations of the above vowels with *shewa* result from two opposite processes: reduction and epenthesis. Thus, the alternation of *å* in *mălå̄ḵíʸm* 'kings' with quiescent *shewa* in *malḵéʸ < *malakay* 'kings of' (note the spirantized *ḵ*) is a product of reduction, while the alternation of the second *ä* in *mälåḵ < *malk* 'king' with quiescent *shewa* in *malkíʸ* 'my king' (note the unspirantized *k*) reflects epenthesis.

Reduction affected short vowels in certain kinds of unstressed open syllables, turning them into *shewa*. The most sonorous of the short vowels, *a*, was the most resistant to reduction. It survived in pretonic open syllables where it was later lengthened to *ā > å* (e.g., *šanatu* 'year' > *šånā > šå̄nå̄ʰ*) except in the construct state (e.g., *šŏnat* 'year of'; see p. 153); as a rule, it did not survive in propretonic ones (e.g., *šŏnå̄to̓ʷ* 'his year'). Short *i* sometimes behaves like *a*, surviving in open pretonic syllables (e.g., *šinatu* 'sleep' > *šenå̄ʰ*), except in the construct state (e.g., Jer. 51:39 *šŏnat* 'sleep of' homonymous with Jer. 48:44 *šŏnat* 'year of'). At other times, it is reduced in open pretonic syllables (e.g., *nåšiḇāt* > Sifre Devarim

40 *no͏ʷšəḇo͏ʷṯ* 'blowing', contrasting with Ezek. 38:12 *no͏ʷšåḇoṯ* settled').

Epenthesis affected word-final consonant clusters, breaking them up through the insertion of *ä* (*segol*, hence the term "segolation"), *a* (in the vicinity of *h*, *ḥ* or *ʿ*) or *i* (in the vicinity of *y*). It occurred both in nouns (e.g., *räḡäl* < **ragl* 'foot', *naʿal* < **naʿl* 'shoe') and verbs (e.g., *way:äḡäl* < **way:agl* 'and he exiled', *wan:aʿal* < **wan:aʿl* 'and we went up'). Qumran Hebrew and the Tiberian Massorah preserve evidence of a different, no doubt earlier, rule of epenthesis in the construct form of nouns (see p. 153).

Morphology and Morphosyntax

Nouns and Adjectives

Gender and Number
Masculine singular nouns and adjectives are unmarked. Feminine singular nouns and adjectives usually take one of two endings: + *ấ͏ᵍʰ* or + *ṯ* (> +*ä/aṯ* if the stem ends in a consonant). In BH, the allomorph + *ấ͏ᵍʰ* is often in free variation with + *ṯ* (e.g., *moʾăḇiy:*+ *ấʰ* ~ *moʾăḇíʸ*+ *ṯ* 'Moabitess', *ḥaṭ:ấʾ*+ *ấʰ* ~ *ḥaṭ:ấ*+ *ṯ* 'sin') or with *(ä/a)ṯ* (e.g., *ʾoḵəl*+ *ấʰ* ~ *ʾoḵäl*+ *äṯ* 'consuming', *tip̄ʾår*+ *ấʰ* ~ *tip̄ʾår*+ *äṯ* 'glory').

Masculine plural nouns and adjectives take the ending + *íʸm* (> + *íʸn* in MH), feminine plurals, the ending + *ó͏ʷṯ*. Apart from a few tree names, noun stems with the underlying form CVCC+ ("segolates") change in the plural to CVCəC+ (→ CəCəC+ by reduction; see p. 151), a very archaic alternation of which only traces remain in the other Semitic languages. Interchange of + *íʸm* and + *ó͏ʷṯ* is common, but not their total absence. Probably the only true plurals without a suffix among the nouns are *ṣoʾn* and *båḵår* – the suppletive, suffixless plurals of *śäʰ* 'sheep/goat' and *šo͏ʷr* 'ox', respectively. Semitists use the term "collective" to describe these nouns and mass nouns, as well as true collectives.

Dual number is restricted to a small set of nouns, mainly those denoting units of measurement and counting; it is not found with adjectives (or pronouns or verbs). When used with nouns denoting paired body parts, the dual ending + *ayim* is structurally a plural ending, for it does not contrast with the regular plural endings and it cooccurs with numerals greater than 1. This "pseudo-dual" remained unchanged in MH, while the true dual was partially replaced by the word for 2 (cf. already 2 Sam. 1:1 *yåmiʸm šənåyim* 'two days' instead of *yo͏ʷmayim*).

Definiteness
Definiteness is expressed by the definite article *ha* +, which is prefixed to nouns and adjectives. A more precise transliteration would be *haC:*, for this morpheme has three (unstable) components: (1) the consonant *h*; (2) the vowel *a*; and (3) lengthening of the following consonant (the initial consonant of the word). The third component, which is discontinuous with the first two, is not found with the consonants *ʾ*, *ʿ*, *h*, *ḥ*, *r*, due to a sound change. In such cases, the second compo-

nent may undergo compensatory lengthening. The first component is normally elided following the prefixes *bə* + 'in', *kə* + 'like' and *lə* + 'to' (but not *me* + 'from' or *wə* + 'and'). For example, when *bə* + is added to *hab:ayiṭ* 'the house', the result is *b+ab:ayiṭ*. In the Bar-Kokhba letters, the accusative marker *ʾet* (see below) has been reduced to a prefix which produces the same elision, e.g., *tslʿ hzwʾ* < *ʾäṭ-has:äläʿ haz:o*^w 'this *selaʿ*' (alongside *ʾt hšṭr hzʾ* 'this document'), *tšbt hzw* < *ʾäṭ-haš:ab:åṭ haz:o*^w 'this Sabbath'.

Indefiniteness is usually expressed by the absence of the definite article, but occasionally *ʾähåd* 'one' serves as an indefinite article with nouns.

Case and State

The Proto-Semitic case system has broken down in BH, largely as a result of sound change. The old accusative ending *+a is gone, leaving only a few frozen relics behind; its functional heir, the preposition *ʾet ~ ʾäṭ-*, normally governs only **definite** objects, and even with them it is not obligatory. Also gone is the old genitive ending *+i, used in Pre-Hebrew to mark the second (attributive) constituent of noun phrases like *šämän zayiṭ* 'olive oil', *zeʸṭ šämän* 'oil olive', *ʿeṣ pəriʸ* 'fruit tree', *pəriʸ ʿeṣ* 'tree fruit'.

In Hebrew, it is the first constituent (the head) of these phrases which sets them apart. That constituent, said to be in the "construct state," undergoes a number of distinctive modifications. Two of them are illustrated by Exod. 38:21 *ham:iškån*, *miškan håʿeḏuṭ* 'the Tabernacle, the Tabernacle of the Pact', where the *å* in the closed final syllable of *ham:iškån* is replaced by *a* in *miškan*, and the definite article is omitted (see p. 161). Another two are illustrated by Exod. 22:4 *biśde*^h *ʾaher* 'in another's field', where the *å* of *śåḏä*^h has been reduced to *ə* (p. 151) and then deleted entirely, and word-final *ä*^h has been replaced by *e*^h; contrast Ruth 2:8 *bəśåḏä*^h *ʾaher* 'in another field'. Finally, in Gen. 44:14 *beʸṭåh yo*^w*sep̄* '(and Judah came) to Joseph's house', the word for 'house' has [ay] contracted to [e:] (written *e*^y) and lacks the definite article, in contrast to Gen. 43:26 *hab:aytå*^h '(and Joseph came) to the house'. In cases where the head does not change in the construct state and the genitive noun is indefinite, ambiguity may arise. Thus, the Mekhilta feels the need to prove that Exod. 21:2 *ʿäḇäḏ ʿiḇriʸ* means 'a Hebrew slave' rather than 'a Hebrew's slave'.

The sg. f. ending *+å*^h has the allomorph *+åṭ* in the construct state; the pl. m. ending *+iʸm* has the allomorph *+eʸ*, imported from the pseudo-dual, instead of the historically expected *+iʸ*. Thus, the construct of *šåniʸm* 'years' is *šəneʸ* 'years of', the same as the construct of *šənayim* 'two'.

Pronouns

There are three major sets of pronouns: "nominative" independent pronouns, "accusative" pronouns attached to verbs, and "genitive" pronouns attached to prepositions and nouns. The attached pronouns have one set of allomorphs beginning with a vowel for stems ending in a consonant and another set beginning with a consonant for stems ending in a vowel, e.g, Esther 2:7 *ʾåḇiʸ+hå wəʾim:+åh* 'her

father and her mother' and Jer. 29:5 = 29:28 *piry+ån ~ priʸ+hän* 'their (f.) fruit'.

The same pronouns were originally used with plural nouns, e.g., *bəneʸ+häm* 'their sons' (stem ending in a vowel, like *priʸ+hän*) and *bənoʷt+åm* 'their daughters' (stem ending in a consonant, like *piry+ån*), but at an early period *+eʸ+häm* was reanalyzed as a single morpheme – a suffix to be used with any plural noun – and new forms like *bənoʷt+eʸhäm* were created. The variation between *+oʷt+åm* and *+oʷt+eʸhäm* was lexically conditioned. In Jeremiah's time, *bənoʷt+åm* was obsolete, but *ʾăboʷt+åm* 'their fathers' was still the normal form, *ʾăboʷt+eʸhäm* replacing it only occasionally (e.g., Jer. 9:15 ~ 19:4, in the same expression).

In SBH, a few of the independent pronouns have long allomorphs ending in *åʰ* alongside short allomorphs, e.g., *hem ~ hem:åʰ* 'they'. In Qumran Hebrew more of the independent pronouns and a few of the suffixed ones have the long allomorphs, and in the Samaritan reading tradition these forms predominate. In Qumran Hebrew, the original conditioning of the allomorphs *+m ~ +må* 'them' has been partially preserved: the long suffix *+må* is never attached to a verb ending in (long) *u* or *i*.

Numerals and Quantifiers

The word for 1 is an adjective; it occasionally appears in the plural, e.g., Gen. 11:1 *śåpåʰ ʾăḥåt uʷdbåriʸm ʾăḥådiʸm* 'one language and one_pl. (set of) words'. Numerals above 1 are nouns, as are the quantifiers *kol ~ kål-* 'all' (lit. 'totality') and *məʿaṭ* 'a bit'. Like those quantifiers, they normally precede the counted noun in BH and MH. However, *harbeʰ* 'a lot' normally follows the quantified noun in BH and MH, and behaves more like an adjective. With rare exceptions, the three quantifiers do not agree with their nouns, while many numerals (3–10, 13–19, 23–29, etc.) exhibit a kind of reverse agreement (polarity), taking a feminine ending with masculine counted nouns (e.g., *šəloš+åʰ båniʸm* 'three sons') and vice versa (e.g., *šåloš bånoʷt* 'three daughters').

Counted nouns normally stand in apposition to the numeral, but there are exceptions. In all periods, the numerals 2–10 normally form a genitive phrase with the word for 'days' (e.g., *šəlošäṭ yåmiʸm* 'three days'), with definite nouns (e.g., 1 Sam. 31:8 and Bet Sheʿarim inscriptions *šəlo(ʷ)šäṭ bånåʸw* 'his three sons') and with other numerals (*šəloš meʾoʷṭ* '300', *šəlošäṭ ʾălåpiʸm* '3,000'). With most nouns, it is definiteness which determines the state of the numeral which precedes them, e.g., Num. 28:19 *šibʿåʰ kəbåśiʸm* 'seven sheep' vs. 28:21 *šibʿaṭ ha+k:əbåśiʸm* 'the seven sheep' (also: 'seven of the sheep'; cf. Exod. 26:9, Num. 35:14).

Ordinals exist only for 1–10; beyond that, cardinal numbers are used in one of four constructions. For 'the Xth year', the Bible has (1) *šənaṭ ha+X šånåʰ*; (2) *šənaṭ ha+X*; (3) *šənaṭ X*; (4) *X šånåʰ*; only (3) is found in the Mishnah. Construction (4) also has the meaning 'X years'; the two meanings are found side by side in Gen. 14:4.

Conjunctions, Prepositions, Postpositions, and Adverbial Endings

The underlying form of the coordinating conjunction is normally *wə̆+*. When prefixed to a word whose initial consonant is a labial or is followed by *ə̆*, it has the allomorph *u^w+* in the Tiberian reading tradition. In binomials like *šāmayim wå̆ʾărăṣ* 'heaven and earth', the underlying form is *wå+*.

The most primitive prepositions are *bə̆+* 'in', *kə̆+* 'like', and *lə̆+* 'to'. When prefixed to nouns, their underlying vowel is *ə̆*, but with suffixed pronouns, it is *å*. With *kå+*, unlike *bå+* and *lå+*, the particle *mo^w+* (~ *mo^wṯ* in MH) is normally inserted before the suffixed pronoun. In the poetic dialect, that particle may be added to any of these three prepositions before nouns. Most of the longer prepositions can be seen to be derived from nouns in the construct state.

BH has a postposition *+å^h* 'to', which alternates with the prepositions *lə̆+* and *ʾäl*, e.g. *hå̆ʿaynå̆^h* ~ *ʾäl-hå̆ʿăyin* 'to the spring' found side by side in Gen. 24. Eventually, it became a meaningless ossified relic, used in forms like *la/ə̆+ḥu^wṣå̆^h* 'to the outside' (LBH, Qumran Hebrew) and even *me+ḥu^wṣå̆^h* 'from the outside' (MH).

Another ending which could be viewed as a postposition is *+åm*, generally equivalent to *bə̆+* and used to form adverbs, e.g., *ʾămn+åm* 'really' < *ʾomän* 'truth', *ḥin:+åm* 'gratis' < *ḥen* 'favor', *yo^wm+åm* 'by day' < *yo^wm* 'day'. For the most part there is no specific affix or pattern for adverbs. For the adverbial use of verbs, see below.

Verbs

Verbs do a great deal of work in BH. The finite verbs inflect for number, gender and person, and thus contain their own pronominal subjects. Moreover, verbs are frequently used to express concepts which English expresses with adjectives ("be old," "be big," "be strong," etc.) and adverbs ("greatly," "well," "increasingly," "really").

The Root

Lexical morphemes composed solely of consonants can be isolated in members of virtually all syntactic categories, but only in the verb are these "roots" free to "interdigitate" with a large number of contrasting "patterns."

The verbal root is usually triconsonantal, occasionally quadriconsonantal, rarely quinqueconsonantal. Synchronically biconsonantal roots like *l-d* and *b-n* (see below) occur chiefly as allomorphs of triconsonantal ones. The sg. 3m. imperfect verbs in Table 9.1, p. 156, once assigned to the roots *š-b* and *s-b*, are analyzed today as representing five distinct triconsonantal roots. The three positions within the triliteral root are numbered I, II, and III; thus, a I*n* root is a root with *n* in the first position.

From a diachronic point of view, the biconsonantal allomorphs are probably relics of a very ancient stage in which biconsonantal verbs were fairly common. Viewed in this light, most, if not all, of the verbs in Table 9.1, p. 156 are seen to be originally biconsonantal verbs which were "triconsonantalized" through the

Table 9.1 Roots with "weak" radical

Verb	Meaning	Root	Class
yiš:ób	blow (wind)	n-š-b	In
yaš:íᵞḅ	cause to blow	n-š-b	In
yeséḅ	sit, dwell	y-š-b	Iy
yoʷšíᵞḅ	cause to sit/dwell	y-š-b	Iy
yåšúʷḅ	return	š-w-b	IIw
yåší́ᵞḅ	cause to return	š-w-b	IIw
yišbãʰ	capture	š-b-y	IIIy
yåsóḅ/yis:óḅ	go around	s-b-b	II=III
yåséḅ	cause to go around	s-b-b	II=III

addition of a semi-vowel or consonant length. It is not uncommon to find alternation between two triconsonantalizations of a single biconsonantal original, e.g., *y-g-r ~ g-w-r* 'be afraid' and *ṭ-w-b ~ y-ṭ-b* 'be good' (both Perfect ~ Imperfect). The spread of triconsonantalization continued in the historical period via analogy, e.g., BH *bån+åh/åm* > MH *bŏnåy+åh/åm* 'he built it/them' and BH *yim:aḏ* > MH *yim:åḏeḏ* 'it may be measured'.

Tense and Aspect
BH has six paradigms with temporal and/or aspectual value, listed below together with conventional sg. 1c. examples from the root *k-t-b* 'write':

A   Perfect: *kåṭáḅtíᵞ* 'I wrote, I (now) write' (penultimate stress)
B   Imperfect: *ʾäḳtóḅ* 'I will write, I used to write, I (habitually) write'
C   Perfect + *waw* consecutive/conversive: *wŏkåṭaḅtíᵞ* 'and I shall write' (final stress; see p. 149)
D   Imperfect + *waw* consecutive/conversive: *wåʾäḳtóḅ* 'and I wrote'
E   Participle: *koṭéḅ* 'writing' (also: 'writer')
F   Participle + auxiliary: *(wŏ)håyíᵞtíᵞ/(wå)ʾähyä́ʰ koṭéḅ* '(and) I used to / will (habitually) write'

E is etymologically and morphologically nominal; accordingly, it inflects only for number and gender. The others inflect for person, as well.

The "converted" forms C and D are very common in BH, but they function mainly as markers of formal style. They are virtually nonexistent in MH. They both contain the conjunction 'and'; accordingly, they are restricted to clause-initial position. In that position, C alternates with B, and D alternates with A.

In an utterance whose first verb is B, the subsequent verbs may be either B or, if clause initial, C. Jer. 49:22 *hin:eʰ kan:äšär yaʿ ălä́ʰ wŏyiḏʾä́ʰ wŏyip̄roś kŏnåp̄ǻᵞw* 'behold, like an eagle, he flies up and soars and spreads his wings' is a B–B–B sequence, while *hin:eʰ kan:äšär yiḏʾä́ʰ uʷp̄åraś kŏnåp̄ǻᵞw* 'behold, like an eagle, he soars and spreads his wings' in Jer. 48:40 is a B–C sequence. Similarly, in an utterance whose first verb is A, the subsequent verbs may be either A or, if clause

initial, D. Thus the phrase *ʿâru^{w}m râʾâh râʿâ^h wystr/wǝnistâr* 'the shrewd man saw trouble and hid' in Prov. 22:3 is written as an A–D sequence (*wystr = way:is:âṯer*) but read as an A–A sequence (cf. also Jer. 7:30–31 vs. 32:34–35). Once a verb from paradigm C or D is selected, all subsequent verbs will normally be from the same paradigm, until the sequence is broken by the introduction of a non-clause-initial verb (see p. 166).

According to some scholars, paradigms A–D have temporal meaning in SBH; according to others, aspectual meaning. The question has been debated furiously and inconclusively for more than a century.

The examples below show that collocations of A and B may be used to express the past/future distinction, irrespective of the event/habit/state distinction, while the process/event distinction is expressed by collocating A and B not with each other but with E. Although A, B, and E have a bewildering variety of uses, these particular uses seem to be at the core of the system.

Expressing Distinctions of Tense and Aspect in Biblical Hebrew

	Past		Future	
Event	A		B	
	kaʾ ǎšär *ʿâśiyṯi^y* *lǝšomro^{w}n ...*	*ken ʾä ʿǎśä^h*	*li^{y}ru^{w}šâlayim ...*	
	'as I did to Samaria ...	so shall I do	to Jerusalem ...'	
	(Isa. 10:11; cf. also Exod. 10:14 and 2 Kings 10:18)			

Habit	A			B	
	ʾâḇi^y	*yis:ar* *ʾäṯkäm baš:o^{w}ṯi^{y}m*	*waʾǎni^y*	*ʾǎyas:er* *ʾäṯkäm*	
	'my father	flogged you with whips,	but I	will flog you	
		bâʿaḳrab:i^{y}m			
		with scorpions'			
	(1 Kings 12:11; cf. also Josh. 1:17a and Jer. 44:17)				

State	A		B	
	kaʾ ǎšär *hâyi^{y}ṯi^y* *ʿim mošä^h*	*ʾähyä^h*	*ʿim:âḵ*	
	'as I was with Moses	I shall be	with you'	
	(Josh. 1:5; cf. also Josh. 1:17b and Jer. 2:36)			

	Process	Event
Future	E	B
	hin:e^h ʿo^{w}ḏâk mǝḏab:ärät šâm ʿim ham:äläk waʾǎni^y	*ʾâḇoʾ*
	'you will still be speaking there with the king, and I	will come'
	(1 Kings 1:14; cf. also 1 Sam. 10:5 and Isa. 65:24)	

		E	A
Past			
	wǝhin:e^h ʿo^{w}ḏän:â^h mǝḏab:ärät ʿim ham:äläk wǝnâṯân ...	*bâʾ*	
	'and she was still speaking with the king, and Nathan ...	came'	
	(1 Kings 1:22; cf. also Jud. 13:9 and Job 1:13–19)		

When one considers the full range of uses of these paradigms in SBH, it becomes clear that A and B need to be described in terms of both tense and aspect.

Only for E is it possible to give a simple description, namely, imperfective aspect.

The complexity of the tense/aspect system is due, in part, to the fact that it was constantly in flux. E and F gradually took on the functions of B, in the following order:

1   progressive: complete replacement already in SBH except in present tense questions; without exception in LBH;
2   habitual: partial replacement in BH completed in MH;
3   future: large-scale replacement in MH outside of subordinate clauses;
4   modal: partial replacement in MH.

At the same time, E took on two of the functions of A: perfective present (including the performative) and present of transitive statives.

One result of this expansionism was that E lost its aspectual value and became a tense (present in LBH (?), nonpast in MH). Moreover, thanks to the spread of F, Hebrew developed the ability to distinguish habitual aspect in the future (rare in SBH, common in Qumran Hebrew and MH), the infinitive (rare in LBH, common in MH), and the imperative (MH).

Mood
The BH imperfect distinguishes, in part of its paradigm, a volitive mood (representing diachronically the conflation of the Proto-West Semitic subjunctive, imperative and jussive) from the indicative mood, e.g., $\partial \ddot{a}m\acute{u}^w\underline{t}+\ddot{a}^h$ 'let me die', $m\acute{u}^w\underline{t}$ 'die!', $y\ddot{a}m\acute{o}\underline{t}$ 'let him die'; $\partial \ddot{a}\check{s}\acute{i}^{\partial}\underline{b}+\ddot{a}h$ 'let me bring back', $h\ddot{a}\check{s}\acute{e}\underline{b} \sim h\ddot{a}\check{s}\acute{i}^{\partial}\underline{b}+\ddot{a}^h$ 'bring back!', ∂-al-t $\ddot{a}\check{s}\acute{e}\underline{b}$/t $\ddot{a}\check{s}\ddot{a}\underline{b}$ 'do not turn back'. In the first person, singular and plural, the volitive is expressed by the $+\ddot{a}^h$ (cohortative) ending, which can be used with all verbs except, normally, those ending in a vowel (IIIy and III$^{\partial}$ verbs). In the third person singular, m. and f., the volitive has a distinct (jussive) form in only three categories of verbs: $hip^{\epsilon}il$ (see p. 159), IIIy, and IIw,y $\underline{k}al$. There was also an energic mood with some kind of emphatic force, e.g. $y\ddot{a}\underline{k}ab\ddot{b}\acute{a}\underline{d}+\ddot{a}n+ni^y$ 'he does honor me'.

This distinction did not survive very long. Already in SBH, the volitive forms are sometimes replaced by their indicative counterparts. In Qumran Hebrew, the breakdown of the system is virtually complete; the old volitive forms are still in use, but they no longer have their old meaning. In MH, cohortative forms are virtually nonexistent, and jussive forms are uncommon and largely restricted to certain literary genres. Thus, Deut. 13:7 $nel\ddot{a}\underline{k}\ddot{a}^h\ w\ddot{a}na^{\epsilon}a\underline{b}\underline{d}\ddot{a}^h$ 'let us go and worship' is paraphrased as $nel\underline{e}\underline{k}\ w\ddot{a}na^{\epsilon}\ddot{a}\underline{b}o^w\underline{d}$ in Sanhedrin 7:10. However, the ability to distinguish volitive future from indicative future has been regained through a restructuring of the tense system.

Binyan
Hebrew, like the other Semitic languages, has an elaborate system of morphological patterns (Medieval and Modern Hebrew *binyanim* 'buildings, verbal stems

or derivational classes') used, for the most part, to derive verbs from other, more basic, verbs. Thus, one root can generate a number of morphologically distinct verbs referring to related activities. In the case of human reproduction, the root *y-l-d* yields a verb *yâlaḏ* 'give birth' usually referring to the role of the mother, a second verb *ho*ʷ*liyḏ* 'sire' referring to the role of the father, a third verb *no*ʷ*laḏ* 'be born' referring to the role of the baby, and a fourth verb *yil:eḏ* 'deliver' referring to the role of the midwife. A fifth verb *hityal:eḏ* refers to declaring oneself to be someone's offspring.

The meaning of a given *binyan* cannot be stated in absolute terms, but only relative to a more basic *binyan*. Hence, it makes no sense to ask for the meaning of the most basic *binyan* (*ḳal*), nor does it make sense to attempt to relate the meaning of a specific "derived" verb to the meaning of its *binyan* in cases where a basic counterpart is not attested.

Despite many irregularities and nuances, perhaps produced by semantic change, the relationships in the table below are fairly typical for BH: *hitpa*ʿ*el* is often and *pu*ʿ*al* is always the reflexive–reciprocal and medio-passive, respectively, of *pi*ʿ*el*, which, in turn, is frequently a causative of *ḳal*; and *hup̄*ʿ*al* is always the medio-passive of *hip̄*ʿ*il*, which itself frequently functions as a second causative of *ḳal*. *Nip̄*ʿ*al*, although normally the medio-passive or reflexive of *ḳal*, sometimes interchanges with *hitpa*ʿ*el*.

Table 9.2   Biblical Hebrew *binyanim*

		Perfect	Imperfect	Participle
Ḳal	'be(come) holy/taboo'	ḳåḏáš	yiḳdåš	(ḳåḏóʷš adj.)
Nip̄ʿal	'reveal oneself as holy'	niḳdáš	yiḳ:åḏéš	niḳdåš
Piʿel	'sanctify/purify'	ḳiḏ:áš	yǒḳaḏ:éš	mǒḳaḏ:éš
Puʿal	'be sanctified/purified'	ḳud:áš	yǒḳud:áš	mǒḳud:åš
Hip̄ʿil	'consecrate/devote'	hiḳdíʸš	yaḳdíʸš	maḳdíʸš
Hup̄ʿal	'be consecrated/devoted'	huḳdáš	yuḳdáš	muḳdåš
Hitpaʿel	'sanctify/purify oneself/ reveal oneself as holy'	hitḳad:éš	yitḳad:éš	mitḳad:éš

The MH chart for *ḳ-d-š* would be much the same except in *nip̄*ʿ*al*, *pu*ʿ*al*, and *hitpa*ʿ*el*. *Nip̄*ʿ*al* is no longer attested with this verb, no doubt because that *binyan* is no longer used for reflexives. The *pu*ʿ*al* perfect and imperfect have ceased to exist for virtually all verbs in MH, their function as medio-passive of the *pi*ʿ*el* perfect and imperfect being taken over by the *hitpa*ʿ*el* perfect and imperfect (the former altered in form to *nitḳad:aš*, with preformative *n+*, by analogy with the *nip̄*ʿ*al*). Concomitantly, the rare ingressive use of the *pu*ʿ*al* participle has been transferred to the *hitpa*ʿ*el* participle (which in the case of *ḳ-d-š* has retained its initial *m+* but in other verbs has preformative *n+*). As a result, the *pi*ʿ*el* participle has two medio-passive counterparts in MH: the stative *pu*ʿ*al* participle and the ingressive *hitpa*ʿ*el* participle. *Hitpa*ʿ*el* continues to function as a reflexive, as well.

Valence: Increase and Decrease

Most of the above relationships correspond to oppositions of valence. *Pi'el* and *hip'il*, when functioning as causatives, add an argument to the verb, while *nip'al*, *pu'al*, *hup'al*, and *hitpa'el*, functioning as medio-passives, reflexives or reciprocals, subtract an argument, as shown below:

Binyanim	Root	Valences	Example
Ḳal, Nip'al	*r-p-ʾ*	2, 1	Jer. 17:14 *rəpaʾeniʸ Y. wəʾerapeʾ* 'heal me, O Lord, that I may be healed' (cf. Jer. 31:3)
Hitpa'el, Pi'el	*ḳ-d-š*	1, 2	2 Chron. 29: 5 *hitḳad:əšuʷ wəḳad:əšuʷ ʾät-beʸṭ Y.* 'sanctify yourselves and sanctify the House of the Lord' (cf. Lev. 14:11)
Pi'el, Pu'al	*b-r-k*	2, 1	2 Sam. 7:29 *uʷbərek ʾät-beʸṭ ʿabdəḳa ... yəborak beʸṭ ʿabdəḳa* 'and bless your servant's house ... may your servant's house be blessed'
Hip'il, Hup'al	*b-w-ʾ*	3, 2	Gen. 43:17–18 *way:abeʾ haʾiʸš ʾät-haʾănašiʸm beʸṭaʰ yoʷsep ... huʷbəʾuʷ beʸṭ yoʷsep* 'and the man brought the men to Joseph's house ... they were brought to Joseph's house'
Pi'el, Ḳal	*ṭ-h-r*	2, 1	Ezek. 24:13 *ṭihartiʸḳ wəloʾ ṭahart* 'I purified you, but you would not be purified' (cf. 2 Kings 7:4)
Hip'il, Ḳal	*š-w-b*	2, 1	Jer. 31:17 *hašiʸbeniʸ wəʾašuʷbaʰ* 'bring me back that I may come back' (cf. 2 Sam. 15:20, 2 Kings 7:4, and Jer. 11:18)

In BH, valence decrease can take place with rearrangement of the remaining arguments (type 1) or without it (type 2). The process which derives medio-passive verbs normally deletes the subject of their active counterparts rather than allowing it to remain in a prepositional phrase – hence the medieval Hebrew description of medio-passive verbs as "those whose agent is not mentioned." Type 1 medio-passives advance the original direct object by making the derived verb agree with it and deleting the accusative marker *ʾet*, while type 2 medio-passive verbs are impersonal (i.e., invariably sg. 3m. and subjectless) and are used with *ʾet*, e.g., Num. 26:53–55 *tehalek haʾaraṣ ... yehalek ʾät-haʾaraṣ* 'the land shall be divided ... the land shall be divided'. Intermediate types, with partial advancement, exist as well. With oblique objects, type 2 is the norm (as in Arabic), e.g., Ezek. 10:13 *la+ham ḳoʷraʾ* 'they were referred to (lit. to them it was called)', 16:34 *ʾaḥarayi+ḳ loʾ zuʷn:aʰ* 'you were not sought after (lit. after you it was not whored)', Song 8:8 *yədub:ar-ba+h* 'she shall be spoken for (lit. it shall be spoken about her)'. In MH, type 2 has virtually disappeared, although there is at least one example of it in reliable manuscripts: Pesaḥim 7:7 *šä+n:izraḳ ʾät damoʷ* 'whose blood was sprinkled' (cf. also Sanhedrin 7:5 and Kelim 7:3 in the Naples edition of the Mishna).

Change of *binyan* and change of valence do not always coincide. There is a

whole class of verbs (intransitive statives) which either have the same valence in *hip̄ˤil* that they have in *kal* or else have two meanings in *hip̄ˤil* – one with valence increase and one without it, e.g., *hik̄riʸb̠* 'come near (= *k̠årab*); bring near', *hib̠ʾiʸš* 'stink (= *båʾaš*); cause to stink'. Conversely, intransitive *piˤel* verbs have a causative in the same *binyan*, e.g., BH *miher* 'hurry (intrans. and trans.)', MH *kil:ah̠* 'gush, cause to gush', *meʾen* 'refuse, instruct to refuse'. There are also a few *kal* verbs of this type, e.g., BH–MH *råˤåʰ* 'pasture (trans. and intrans.)' and BH *råh̠aṣ* 'take a bath (= MH *råh̠aṣ*), wash (part of the body = MH *hirh̠iʸṣ*)'. And BH *nåṯan* 'give' and *śåm* 'put' function as suppletive causatives of *håyåʰ* 'be' without change of *binyan*.

Denominatives
Verbs derived from triconsonantal nouns may occur in any *binyan*, and sometimes occur in several unrelated *binyanim*. Thus, we have BH–MH *hišriʸš* 'become rooted' contrasting with BH–MH *šeraš* 'uproot' and MH *hiṯliʸaˤ* 'become wormy' (= BH *way:årum toʷlåˤiʸm* 'and it became infested with worms') contrasting with MH *til:aˤ* 'de-worm'. In these examples, the *hip̄ˤil* denominatives are intransitive stative verbs, while the *piˤel* ones are transitive privative verbs, reminiscent of English "skin a cat" and "worm a dog."

Triconsonantal denominative verbs normally have the same morphology as other verbs, but the MH stative *hip̄ˤil* meaning 'become poor', derived from *ˤåniʸ* 'poor (man)', is irregular: imperfect *yaˤniʸ*, perfect *häˤniʸ*, participle *maˤniʸ*. The expected *yaˤănäʰ* was avoided, apparently to prevent confusion with *kal yaˤănäʰ* 'he will answer'.

Quadriconsonantal denominatives cannot be accommodated in most *binyanim*. In LBH and MH, the problem was solved through a modification of *piˤel*, *puˤal* and *hitpaˤel/nitpaˤal* – a modification used earlier for reduplicated quadriconsonantals like *k-l-k-l*. Thus, in LBH we find the participles *məṯurgåm* 'translated' and *məkurbål* 'bemantled', derived from quadriconsonantal Aramaic nouns for 'translator, dragoman' and 'mantle', respectively. These participles have the pattern *məCuCCåC*, which differs from the *məCuC:åC* pattern of the *puˤal* participle only in that the doubled medial radical has been shortened to make room for an additional consonant.

Syntax

Modification of Nouns
Nouns may be modified attributively by adjectives, quantifiers, nouns (genitive and appositive), pronouns (possessive and demonstrative), prepositional phrases, or clauses (see p. 171).

Nominal attributes of the genitive type are distinguished from adjectival ones in three ways: they put their heads in the construct state (see p. 153), e.g., *ˤåreʸ mib̠ṣår* 'fortress cities' (contrast *ˤåriʸm bəṣuroʷṯ* fortified cities'), they do not

agree with their heads, and they normally prevent their heads from taking a definite article, e.g., *ʿåreʸ ha+m:ibṣår* 'the fortress cities' (contrast *hä+ʿåriʸm ha+b:ǝṣuroʷt̲* 'the fortified cities').

The distinction between the two types of attributes is often blurred. Thus, in adjectival *šaʿar hå+ʿålyoʷn* 'the upper gate' (Ezek. 9:2), the head lacks the definite article, a feature which becomes common in MH, while in the genitive construction *ha+š:aʿar ha+d:åroʷm* 'the south gate' (Ezek. 40:28), the head has the definite article. In adjectival *malʾåk̲eʸ råʿiʸm* 'evil emissaries' (Ps. 78:49) the head is in the construct state. In Deut. 25:15 *ʾäbän šǝlemåʰ wåṣådåk̲* 'a full and righteous weight', an adjective is conjoined with an abstract genitive noun, no doubt on the analogy of interchanges like Ps. 9:5 *šoʷp̄eṭ ṣädäk̲* 'judge of righteousness' with Ps. 7:12 *šoʷp̄eṭ ṣad:iʸk̲* 'righteous judge'. There is also a tendency to make the genitive noun agree in number with its head (see below).

In true compounds like *ʿåreʸ ha+m:ibṣår* and Deut. 13:4, 6 *ho(ʷ)lem ha+håloʷm*, the definite counterpart of Deut. 13:2 *holem håloʷm* 'a dream dreamer', the definite article prefixed to the genitive noun serves to make the entire phrase definite. With other genitive phrases, especially possessive ones, a definite article prefixed to the genitive noun belongs to it alone, and there is no way to mark the definiteness of the head. Thus, *malʾak̲ hå+ʾǎlohiʸm* has the same form whether it means 'an angel of God' (Judg. 13:6, etc.) or 'the angel of God' (Judg. 13:9, etc.), and *k̲ǝnap̄ ha+k:ǝruʷb̲* has the same form whether it means 'a wing of the cherub' (1 Kings 6:27) or 'the wing of the cherub' (1 Kings 6:24).

The rule which places the definite article on the genitive noun of compounds produces bizarre results when it is applied to gentilic nouns derived from compound names (of places, tribes, or clans). The toponym *beʸt̲-ʾel/beʸt̲ʾel* 'Bethel', literally 'house of God', is treated in SBH as a genitive construction – even after it is converted to a gentilic through the addition of *+iʸ*. Thus, *beʸt̲ hå+ʾäl+iʸ* 'the Bethelite', the definite form of **beʸt̲ʾäl+iʸ*, is split in the middle by the definite article, as if it meant 'house of the godly'. Small wonder that, in the later period, Bar-Kokhba calls the people of En-Gedi (lit. 'kid spring') *hʿngdyn* rather than *ʿyn-hgdyn*.

In SBH, the plural ending is normally attached only to the head of the genitive phrase, but a second plural ending is sometimes attached to the genitive noun. This **redundant plural ending**, which becomes increasingly common in LBH and MH, is used with both mass nouns (even those which are otherwise unattested with a plural ending, e.g., Isa. 42:22 *båt̲:+eʸ k̲ǝlåʾ+iʸm* 'houses of detention', Bava Batra 10:4 *šǝṭår+eʸ ʾäriʸsiy:+oʷt̲* 'contracts of tenantship', Sifra Nedava 8:2 *båt̲:+eʸ dǝšǎn+iʸn* 'receptacles for fatty ash') and count nouns (even when ambiguity is created, e.g., Deut. 1:15 *sår+eʸ ʾålåp̄+iʸm* 'chiefs of a thousand').

The process which creates the genitive construction is **iterative** and a number of long chains are attested, e.g., Lev. 13:59, 2 Kings 18:24, Isa. 21:17, 28:1, 2 Chr. 36:10, Copper Scroll XI, 16. In 1 Chr. 9:13 [*gib:oʷreʸ heʸl*] [[*mǝlä'k̲äṭ ʿǎb̲oʷdat̲*] [*beʸt̲-hå'ǎlohiʸm*]] '[men of valor of] [[the work of the service of] [the House of God]]', the constituent phrases are easily recognizable because they are frequently

attested in the Bible. In the end product, all nouns but the last are in the construct state; hence *ḥayil* → *ḥe^{y}l* and *ʿăḇo^{w}d̪å^h* → *ʿăḇo^{w}dat̪*.

All nouns in the chain but the last normally dispense with the definite article. In 2 Kings 23:17, we find two exceptions in a single sentence quoting the people of Bethel: *ha+k̇:äḇär ʾi^{y}š hå+ʾălohi^{y}m* 'the grave of the man of God' and *ha+m:izḇaḥ be^{y}t̪-ʾel* 'the altar of Bethel'. This may be a syntactic allusion to Gen. 31:13 *hå+ʾel be^{y}t̪-ʾel* 'the God of Bethel'.

A process which serves some of the same functions as the one which creates genitive phrases and which sometimes alternates with it is the insertion of the preposition *lə+* 'to, belonging to' (e.g., 2 Kings 5:9, Ruth 2:3), usually preceded by relative *ʾăšär/šä+*. This **circumlocution** permits the use of the definite article with the head noun, e.g., Gen. 29:9 *haṣ:o^{y}n ʾăšär lə+ʾăḇi^{y}hå* 'the flocks which belong(ed) to her father' (also 31:19) vs. Gen. 37:12 *ṣo^{y}n ʾăḇi^{y}häm* 'their father's flocks'.

In some contexts, circumlocution of the genitive construction with (*ʾăšär/šä+*) *lə+* is more than just a stylistic option. In MH, it is obligatory for the second genitive construction in constructions of the form "A of B ..., but (that) of C ..." (e.g., Berakhot 4:1, Sanhedrin 10:5), "... A of B; also (that) of C" (e.g., Ṭevul Yom 1:1, 2), and "A of B is more ... than (that) of C" (e.g., Terumot 5:9), where the second occurrence of A is deleted by a gapping transformation.

In all periods, circumlocution is obligatory when the noun phrase to be modified contains a conjunction, e.g., Gen. 40:5 *ham:aškä^h wəhå^{ʾ}opä^h ʾăšär ləmäläk miṣrayim* 'the butler **and** the baker of the king of Egypt' instead of **maške^h wəʾope^h mäläk miṣrayim*, 2 Kings 11:10, Benei Ḥezir tomb inscription *kbr whnpš šlʾlʿzr* '(the) tomb **and** the monument of Eleazar', Copper Scroll III, 2–3 *kly ksp wzhb šldmʿ* 'vessels of [silver **and** gold] of *t̪erumah*', Pe'ah 4:9, Shevi'it 1:4, Terumot 11:4. The genitive construction may be used only if the coordinate noun phrase is first broken up, e.g., Gen. 40:1 *maške^h mäläk miṣrayim wəhå^{ʾ}opä^h* 'the butler of the king of Egypt and the baker', Deut. 22:15 *ʾăḇi^y han:aʿårå^h wəʾim:åh* 'the girl's father and her mother', Sanhedrin 11:1, Menaḥot 7:4. The genitive constituent, on the other hand, is often a coordinate noun phrase, e.g., Exod. 32:2, Lev. 13:59, Num. 20:5, Deut. 8:8, Josh. 6:19, Terumot 11:4, Ḥagigah 1:8.

In MH, the phrase *šä+l:ə+* 'that belongs to' has been reanalyzed as a single morpheme: a new preposition *šäl* with the meaning 'of'. This is evident in the phrase *šhyw šl hgwʾyn* 'which belonged to the gentiles' (Bar-Kokhba letters), for the first half of a bimorphemic *š+l+* would be redundant following *š+hyw* and the second half would elide the [h] of the definite article (see pp. 152–153) and be written as part of the next word, without a space. Chains with more than one occurrence of *šäl* are attested, e.g., Kelim 12:3, 6, Zavim 4:2 (*bis*), Bet She'arim inscriptions (cited below).

Suffixed pronouns, unlike genitive nouns, are normally possessive. Thus *be^{y}t̪+o^w* 'his/its house' can be equivalent to *be^{y}t̪ hå^{ʾ}i^{y}š* 'the man's house' but not to *be^{y}t̪ hak̇:ayiṣ* 'the summer house'. Another difference is that the suffixed pronoun cannot normally serve as the head of another genitive noun or any other non-

appositive modifier. Nouns modified by suffixed pronouns, like those modified by genitive nouns, do not normally retain their definite article, unless the pronoun is separated through the insertion of (*ăšär/šä+*) *lǝ*+, e.g., 1 Sam. 25:7 *hâroʿi^{y}m ʾǎšär lǝ+kǎ* vs. Gen. 13:8 *roʿä^{y}kǎ* 'your shepherds'.

The tendency of these pronouns to be attached to the last noun of a genitive construction often conflicts with the syntactic bracketing required by the sense, e.g., Prov. 24:31 [*gǎdär$_1$ ʾǎbǎn$_2$*] [*ǎ^{x}w$_3$*] 'his$_3$ stone$_2$ fence$_1$', Prov. 10:15, 18:11 [*kiryat$_1$ ʿuz:$_2$*][*o^w$_3$*] 'his$_3$ mighty$_2$ city$_1$' (contrast the purely poetic Ps. 71:7 *maḥs$_1$+i^y$_2$-ʿoz$_3$* 'my$_2$ mighty$_3$ refuge$_1$'), Yoma 5:1, Negaʿim 12:5. The conflict is sometimes resolved through the use of a circumlocution, e.g., Gen. 44:2 *gǝbi^{yc}i^y gǝbi^{y}aʿ hak:äsäp* 'my silver goblet (lit. my goblet, the silver goblet)', 2 Kings 25:30; Exod. 35:16 *mikbar han:ǝḥošät ʾǎšär-lo^w* 'its copper grating (lit. the copper grating that belongs to it)', Lev. 9:8, Judg. 3:20.

The first constituent of the genitive construction may take a suffixed pronoun referring to the second constituent. In MH, where this **anticipatory pronoun** is common, its referent must be governed by *šäl*, e.g., Sanhedrin 8:5 *mi^{y}tǎt+än šäl:ǎrǝšǎʿi^{y}n* 'the death (of them,) of the wicked', Bet Sheʿarim inscriptions *ʾrwn+n šlšlwšt bny+w šlrby ywdn bn+w šlrby my^{y}šh* 'the ossuary (of them,) of the three sons (of him,) of Rabbi Judan, the son (of him,) of Rabbi My^{y}šh'. In BH, where it is rare, its referent is (with one exception, in Song 3:7) not governed by a preposition, e.g., Ezek. 42:14 *bǝbo^y+ǎm hak:ohǎni^{y}m* 'upon the entering of (them,) the priests'.

Modification of Verbal Nouns and Adjectives

Verbal nouns can also be modified by genitive nouns, which may be underlying subjects or objects; in 2 Sam. 1:26, *ʾahǎbat nǎši^{y}m* 'love of women' is ambiguous. Adjectives, too, may be used in the genitive construction, whether they function as nouns (e.g., 2 Kings 10:6 *gǝdole^y hǎʿi^{y}r* 'the grandees of the city') or not (e.g., Gen. 41:2 *yǝpo^{w}t marʾä^h* 'beautiful of appearance', Ezek. 17:7 *gǝdo^{w}l kǝnǎpayim* 'great of wing', Gittin 9: 8). Here too, the definite article which logically belongs to the whole phrase is attached to the genitive noun (see pp. 161–2). Thus, when *yǝpo^{w}t marʾä^h* (Gen. 41:2) and *gǝdo^{w}l kǝnǎpayim* (Ezek. 17:7) modify definite nouns, they become *yǝpot ham:arʾä^h* (Gen. 41:4) and *gǝdo^{w}l hak:ǝnǎpayim* (Ezek. 17:3), literally 'beautiful of the appearance' and 'great of the wing'.

The comparative degree of adjectives is expressed by means of an adverbial phrase introduced by the preposition *min/miC*: 'from, away from', e.g., Judg. 14:18 *mǎto^{w}k mid:ǝbaš* 'sweet beyond honey', Niddah 2:7. In MH, this adverbial may be strengthened by placing the word *yo^{w}ter* 'more' before it (not before the adjective, as in Modern Hebrew).

The superlative, too, is expressed syntactically, e.g., Song 1:8 *hay:äpä^h ban:äši^{y}m* 'the fair(est) among women', Deut. 28:54. In MH and sometimes in BH, the relative conjunction is inserted before the preposition, e.g., 2 Sam. 7:9, Pesaḥim 9:8 *hay:äpä^h šä+b:ǎhän* 'the fair(est) among them'.

Word Order

Within the Noun Phrase
Attributive modifiers (with the exception of some quantifiers; see p. 154) follow their heads in a fairly predictable order: (1) genitive nouns; (2) possessive pronoun; (3) adjectives; (4) demonstrative pronoun/adjective; (5) relative clauses. In LBH, (3) and (4) may be reversed, e.g., 2 Chron. 1:10, Esther 9:29.

Put differently, adjectives and relative clauses may not separate the immediate constituents of a genitive phrase; they must follow the last genitive noun or pronoun. Thus, both the wide scope modifier of 1 Kings 6:24 *kǒnap̄f. hak:ǒru"b̄m. haš:eni*ʸ*t̄f.* 'the second_f. wing_f. of the cherub_m.' and the narrow scope modifier of 1 Kings 6:27 *u"k̄nap̄f. hak:ǒru"b̄m. haš:eni*ʸ*m.* 'and a wing_f. of the second_m. cherub_m.' come after the word for 'cherub'. However, adjectives which are inside the genitive noun phrase and, thus, do not separate it from its head are permitted, at least in MH, e.g., Bava Meṣi'a 1:5 *meṣi*ʸ*ʾat̄ bǒno" u"b̄it:o" hag:ǒdo"li*ʸ*m wǒ*ʾ*abdo" wǒšip̄hǎt̄o" hǎ*ʿ*i*ʸ*bri*ʸ*m* 'an object found by (lit. the find of) his big son or daughter or his Hebrew manservant or maidservant'.

When both wide and narrow scope modifiers are present, the latter come first (as in Arabic), e.g., Deut. 5:24, 21:6, 28:58, 31:16 [ʾ*ǎlohe*ʸ *nek̄ar*] [*hǎ*ʾ*ǎrǎṣ*] [ʾ*ǎšär hu"ʷ bǎ*ʾ *šǎm:å*ʰ] [*bǒk̄irbo"*] '[the alien gods]—[of the land] [which they are about to enter]—[in their midst]' ('in their midst' modifies 'the alien gods'!), Ps. 86:2.

With some genitive types, the phrase-final placement of adjectives managed to survive the transition to circumlocution with *šäl*. Thus, some of the MH counterparts of Esther 8:15 ʿ*ǎṭärǎt̄ zǎhǎb̄ gǒdo"lǎ*ʰ 'a large crown (made) of gold' (genitive of material) exhibit the old order, with the adjective at the end: Rosh Hashanah 2:3 *kǒlo"nso"t̄ šäl:ǎ*ʾ*äräz* ʾ*aruk:i*ʸ*m* 'long poles of cedar', Nega'im 14:1. Others have the adjective after the first noun: Tamid 3:6, Kelim 25:7 ʿ*äre*ʸ*bǎ*ʰ *gǒdo"lǎ*ʰ *šäl:ǎ*ʿ*eṣ* 'a large kneading-trough of wood'. This order is found already in Ezek. 40:40 *hak:ǎṭep̄ hǎ*ʾ*ahärǎt̄* ʾ*ǎšär lǎ*ʾ*ulǎm haš:a*ʿ*ar* 'the other side of the gate's vestibule'.

Within the Non-verbal Clause
In BH (and sometimes in MH too), predicative adjectives come before their subject in verbless clauses, except in those beginning with *wǒ*+ (circumstantial, concessive, and parenthetical clauses, e.g., Gen. 13:13, 18:11, 29:17, Yevamot 13:1) or the presentatives *hin:e*ʰ/*hǎlo*ʾ. Thus, in asking Jacob for lentils Esau says *ki*ʸ ʿ*ǎyep̄* ʾ*ǎnok̄i*ʸ 'for I am famished' (Gen. 25:30) with the adjective first, but in the previous verse (25:29) the account of Esau returning home uses a circumstantial clause with the adjective second: *way:ǎbo*ʾ ʿ*eśǎw min-haś:ǎḏǎ*ʰ *wǒ*+*hu"ʷ* ʿ*ǎyep̄* 'and Esau came in from the field famished (lit. and he was famished)'.

When the predicate adjective is modified by an adverbial, the predicate is often split, with the adjective preceding the subject and the adverbial following, e.g., Gen. 3:6, 12:14, Deut. 7:17, Josh. 9:22, 1 Sam. 29:9, Avot 4:17. This order seems

to be very ancient, since it is also reflected in the morphology of the stative perfect. Thus, 1 Sam. 15:17 *ḳåṭon ʾat:åʰ bǝʾeʸnäʸḳå* 'small are you in your (own) eyes' would have had the same order and meaning had it been expressed by a stative verb in the perfect: *ḳåṭon+tå bǝʾeʸnäʸḳå* (not attested, but see Gen. 32:11).

Within the Verbal Clause
BH verbal sentences are basically VSO, but there are numerous exceptions. Verbal circumstantial and concessive clauses, like the non-verbal ones discussed on p. 165, begin with the conjunction *wǝ+* followed by the subject (e.g., Gen. 18:13, 24:31).

Other exceptions involve **focused elements**, which are moved to the beginning of the clause, e.g., Gen. 37:4, Deut. 6:13 *ʾäṭ-Y. ʾălohäʸḳå tiʸråʾ wǝʾoṭoʷ taʿăḇoḏ uʷḇišmoʷ tiš:åḇeaʿ* 'it is the Lord your God that you shall revere, and Him that you shall worship, and His name that you shall swear by', 13:5. When the focused element is the subject of the verb, a redundant independent pronoun may be inserted before the verb, e.g., Deut. 1:38–39 *yǝhoʷšuaʿ ...* **huʷʾ** *yåḇoʾ šåm:åʰ ... wǝṭap:ǝḵäm ...* **hem:åʰ** *yåḇoʾuʷ šåm:åʰ* ʿ(... you will not come there) Joshua ... **he** will come there ... and your children ... **they** will come there', Ḳiddushin 3:7.

Similar devices are used to signal **contrast** between two clauses. In some cases, the inversion or independent pronoun is found only in the second of the two clauses, e.g., Gen. 12:12 *wǝhårǝg̱uʷ ʾoṭiʸ wǝʾoṭåḵ yǝhay:uʷ* 'and they shall kill **me**, but **you**, they will let live' (contrast Num. 22:33), Gen. 33:16–17, Exod. 33:23, Gen. 42:8 *wayak:er yosep̄ ʾäṭ-ʾähåʸw wǝhem loʾ hik:iruhuʷ* 'Joseph recognized his brothers but **they** did not recognize **him**'. In other cases, the first clause mimics the second, e.g., Gen. 41:13 *ʾoṭiʸ heši̱ʸḇ ʿal-kan:iʸ wǝʾoṭoʷ ṭålåʰ* 'me, he restored to my post, and **him**, he hanged' (contrast Gen. 40:21–22), Gen. 34:21, Deut. 23:21, 1 Kings 12:11, Judg. 14:16, Ezek. 33:25, Jon. 4:10–11 (for the last three, see p. 167). Sometimes, the inverted second clause exhibits the topic–comment construction, e.g., Exod. 9:20–21, 2 Chron. 10:16–17; see p. 168.

Agreement
Verbs and predicate adjectives agree with their subjects in number and gender; attributive adjectives agree with their heads in definiteness as well. Demonstrative adjectives, being inherently definite, differ from most other attributive adjectives in discriminating between two kinds of definite heads: those with the definite article and those with a suffixed pronoun. Demonstratives take a redundant definite article with the former type but not with the latter, e.g., *had:ǝḇåriʸm håʾel:äʰ* 'these words' vs. *dǝḇåray ʾel:äʰ* 'these words of mine'.

In all periods, collectives may take either singular or plural concord, but in LBH and MH the plural prevails. In SBH, there is much variation, even within a single verse or adjacent verses, e.g., Josh. 6:20, Judg. 9:36–37; attributive adjectives are consistently singular even when other modifiers are plural, e.g., Num. 14:35, Judg. 2:10, 2 Sam. 13:34 *ʿam-rab holǝḵiʸm* 'a large crowd was (lit. were) coming'. For the non-agreement of passive verbs, see p. 160.

In BH, the rules of agreement often depend on the word order, i.e., on whether the verb comes before the subject or not. This is the case with coordinate noun phrases (compound subjects). In the book of Esther, the phrase *ham:äläk̲ wᵊhåmån* 'the King and Haman' appears five times as a subject, four times **following a singular** verb and once **preceding a plural** verb. There is no categorical rule requiring a verb preceding a compound subject to be singular, but when it is, it agrees in gender with the closer conjunct, e.g, Esther 9:29, 31, Gen. 33:7, Shabbat 11:6, and Sanhedrin 1:6.

The clearest evidence of the influence of word order on agreement in BH comes from the many cases where we find singular verbs preceding the subject and plural verbs following it (in a subsequent clause). This is found with compound subjects (e.g., Gen. 9:23, 14:8, 21:32, 24:50, 61, 31:14, 33:7 [*bis*], 34:20, 44:14, Num. 12:1–2, 1 Sam. 27:8) and with collectives (e.g., Exod. 1:20, 4:31, 17:2 [contrast 17:3], 20:14, 32:1, 31, 33:10, Lev. 9:24, Josh. 6:20, 1 Kings 18:39).

Modifiers of genitive phrases occasionally exhibit the force of attraction, agreeing with the adjacent genitive noun instead of its head, e.g., Exod. 26:26 (contrast 26:27), Josh. 7:21, 1 Sam. 2:4, 2 Kings 1:13 *śar ḥåmiš:iᵞm šᵊliši ᵞm* 'a third captain of fifty'.

Interrogation, Affirmation, and Negation

Yes–no questions are introduced by *hă+ ~ Ø*, e.g., 1 Kings 2:13 *hăšålo ʷm bo ᵓäk̲å* 'do you come in peace?' vs. 1 Sam. 16:4 *šålom bo ʷᵓäk̲å* 'you come in peace?'. Omission of the particle is especially common in astonished rhetorical questions which follow from a premise, e.g., Judg. 11:23, 14:16 *hin:e ʰ lᵊ ᵓåb̲i ᵞ u ʷᵓl ᵓim:i ᵞ lo ᵓ hig:adti ᵞ wᵊlåk̲ ᵓag:i ᵞd̲* 'my father and my mother I haven't told and you I should tell?!', 1 Sam. 25:10–11, 2 Sam. 11:11, 2 Kings 19:11, Jer. 25:29, 45:4–5, 49:12, Ezek. 18:11–13, 33:25, Jon. 4:11 vs. Num. 32:6 and Ezek. 20:30–31. Such questions serve as the apodosis of *a fortiori* arguments, substituting for assertions introduced by *ᵓap̲ ki ᵞ* 'all the more so'.

Hebrew originally had no word for 'yes'; MH *hi ᵞn* 'yes' is an Aramaic loanword, while in Gen. 30:34 *hen* is an Aramaism in the mouth of an Aramean. Affirmative answers to yes–no questions consist of a restatement of the question in positive terms with change of person (first to second and vice versa) but not of word order. The answer is often simplified through deletion of all but its first word; thus, the affirmative reply to *hayda ʿtäm ᵓät̲-låb̲ån bän-nåho ʷr* 'do you know Laban son of Nahor?' (Gen. 29:5) is just *yåd̲å ʿnu ʷ* 'we know' (not 'we know him') and the answer to *hăk̲o ʷlᵊk̲å zä ʰ* 'is that your voice, (my son David)?' (1 Sam. 26:17) is *k̲o ʷli ᵞ* 'my voice, (my lord king)'.

Answers to other types of questions follow the word order of the question, in which the questioned element comes first, e.g., Gen. 37:15–16, Josh. 9:8–9, Judg. 15:10, 1 Sam. 28:11, 13, 2 Sam. 1:3, Jer. 1:11, Yadayim 4:4.

In all periods, the most common negation is *lo ᵓ*. In addition, there are a number of specialized negations, including *ᵓe ᵞn* for verbless clauses, *ᵓal* for volitives, BH *bilti ᵞ* for infinitives (see p. 170), BH *ṭäräm* 'not yet' (normally takes the imper-

fect, regardless of the tense), MH *lå̄ʾw* 'not so' (in *ʾim lå̄ʾw* 'otherwise') and MH negative polarity words like *kə̄lu*ʷ*m* 'anything' and *me*ʿ*o*ʷ*lå̄m* 'ever (in the past)'.

The scope of *loʾ* is highly variable in BH. We find it negating single words, e.g., Deut. 32:21 *loʾ-ʾel ... loʾ-ʿå̄m* 'a non-god ... a non-folk', Jer. 5:7. We also find it negating compound and complex sentences with a scope so wide that it is difficult to reproduce in normal English, e.g., Gen. 31:27 *lå̄m:å̄*ʰ *... loʾ-[hig:aḏtå̄ l:i*ʸ *wå̄ʾå̄šal:eḥå̄kå̄ bə̄śimḥå̄*ʰ *u*ʷ*bširi*ʸ*m]* 'why ... did (it) not (happen that) [you told me (you were leaving) and so I sent you off with festive music]', Lev. 10:17 *mad:u*ʷ*a*ʿ *loʾ[-ʾå̄kaltäm ʾäṯ-haḥaṭ:å̄ʾṯ bimko*ʷ*m hak:oḏäš ki*ʸ *koḏäš kå̄ḏå̄ši*ʸ*m hi*ʷ*]* 'why did (it) not (happen that) [you ate the sin offering in the sacred area because it is most holy]?', 2 Sam. 18:11, 19:22, Jer. 20:17.

Scope ambiguity of the negation is common. The phrase *loʾ yu*ʷ*maṯ X ki*ʸ *...*, which occurs in 2 Sam. 19:22 with wide scope *loʾ* ('it is not the case that [X shall be put to death because ...]'), occurs in 1 Sam. 11:13 and Lev. 19:20 with narrow scope *loʾ* ('X shall not be put to death, because ...') (cf. also Gen. 31:27 vs. Ps. 81:12–13). Word order can sometimes be used to disambiguate. Thus, the semantic difference between Ps. 9:19 *loʾ lå̄nǟṣaḥ yiš:å̄kaḥ* 'not forever will he be forgotten' and Ps. 119:93 *lə̄ʿo*ʷ*lå̄m loʾ-ʾäškaḥ* 'forever will I not forget = I will never forget' is made clear by word order, but not the semantic difference between Ps. 74:19 *ʾal-tiškaḥ lå̄nǟṣaḥ* 'do not forget forever' and Ps. 15:5 *loʾ yim:o*ʷ*ṭ lə̄ʿo*ʷ*lå̄m* 'he will never be shaken'. In MH, there is no ambiguity: *loʾ ... lə̄ʿo*ʷ*lå̄m* always means 'never'.

Conjunction

Coordination

The boundary between coordination and subordination in BH is not as sharp as in English. Semantic relations which are normally made explicit through subordination are occasionally expressed less precisely in BH by coordination, e.g. Gen. 44:22 *wə̄ʿå̄zaḇ ʾäṯ-ʾå̄ḇi*ʸ*w wå̄meṯ* 'he will leave his father and he will die' (entailment; contrast 1 Chron. 28:9 *wə̄ʾim ta*ʿ*azḇän:u*ʷ 'and if you leave him'), Exod. 10:13 *hab:oḳär hå̄yå̄*ʰ *wə̄ru*ʷ*aḥ hak:å̄ḏi*ʸ*m nå̄śå̄ʾ ʾäṯ-hå̄ʾarbǟ*ʰ 'morning came and the east wind brought the locusts' (simultaneity; contrast Exod. 19:16 *bihyot hab:oḳär* 'as morning came').

The ubiquitous *wə̄+* is normally considered the main coordinating conjunction, but it is not restricted to that role. In all periods, it frequently serves to connect a main clause to a previous subordinate clause (e.g., the *waw* apodosis in Lev. 6:21 and Soṭah 8:1) and a comment to its topic (e.g., Jer. 6:19 *wə̄ṯo*ʷ*rå̄ṯi*ʸ *way:im*ʾ*å̄su*ʷ*-bå̄h* 'and as for my Torah, they rejected it', Shabbat 16:6). And in all periods, it is used regularly to connect subordinate clauses of one type (circumstantial) to the main clauses which they modify (see Circumstantial Clauses, p. 169). If it is used less commonly to introduce subordinate clauses of other types, that is only because they have their own, more specific, conjunctions which pre-empt it. But when for some reason those other conjunctions are not used, it is always on hand

to fill the void, e.g., Gen. 11:4 (instead of relative *ʾăšär*), Gen. 42:10 (instead of adversative *kiʸ*; cf. 42:12), and Gen. 47:6 (instead of complementizing *kiʸ*). Finally and most remarkable of all, BH *wə̆+* is not uncommon at the beginning of utterances or even whole books.

Subordination

Circumstantial Clauses

In all periods, a clause may serve as a temporal adverbial even though it contains no word meaning 'while' but simply *wə̆+* or nothing at all (e.g., Exod. 22:13). In such a clause, the subject, if definite, will come first, whether the predicate is a perfect (e.g., Gen. 24:31), an active participle (e.g., Gen. 18:1, Bava Meṣiʿa 4:10), a stative participle/adjective (e.g., Gen. 18:12, Giṭṭin 8:2, Yevamot 13:1), or a prepositional phrase (e.g., Lev. 7:20, Jer. 2:37, Ketubbot 12:3, Giṭṭin 8:1).

Conditional Clauses

The most common conditional particle in all periods is *ʾim* 'if'. Others include BH *luʷ* > MH *ʾiʸl:uʷ* (counterfactual), BH *luʷleʾ/luʷleʸ* > MH *ʾiʸl:uʷleʸ* (negative counterfactual), and MH *ʾapiʸl:uʷ* 'even if'.

Omission of the apodosis is permissible in contexts which allow the hearer to reconstruct it. When the speaker lays out two antithetical alternatives in conditional form, the apodosis of the first conditional may be omitted if it is the one preferred by the speaker and requires no further action, e.g., Gen. 4:7, Exod. 32:32 *ʾim-tiś:ăʾ ḥaṭ:ăʾ tắm wə̆ʾim ʾayin mə̆heniʸ năʾ mis:ip̄răk̆ă ʾăšär kǻtǻb̆tǻ* 'if You will forgive their sin; but if not, erase me from Your book which You have written', 1 Sam. 12:14–15, Makkot 1:1 (cf. also Dan. 3:15). In all of these cases, the apodosis of the first conditional is to be understood as *ṭoʷb̆* 'well and good' and/or a volitive formed from the verb of the protasis, as in Ruth 3:13 *ʾim-yiḡʾălek̆ ṭoʷb̆ yiḡʾăl wə̆ʾim loʾ yaḥpoṣ lə̆ḡăʾălek̆ uʷḡʾaltiʸk̆ ʾănok̆iʸ* 'if he will redeem, good – let him redeem; but if he does not want to redeem for you, I will redeem for you myself'.

Complement Clauses

Complement clauses occur commonly as subjects of equational sentences and as objects of verbs and prepositions, but only rarely as subjects of verbs (except for those modified by the adverbial *bə̆ʿeʸneʸ X* 'in the eyes of X'). Finite and non-finite types coexist in all periods, with the latter becoming relatively less frequent in MH.

As subjects of equational sentences and objects of prepositions, the finite and non-finite types are in free variation (cf. Gen. 27:44–45 *ʿad̆ ʾăšär-tăšuʷb̆ ḥămat ʾăhiʸk̆ǻ, ʿad̆-šuʷb̆ ʾap̄ ʾăhiʸk̆ǻ mim:ə̆k̆ǻ* 'until your brother's fury turns back, until the turning back of your brother's anger from you', where the two are in apposition) or complementary distribution (see below). However, *lip̄neʸ* 'before' takes only non-finite complements in all periods, while BH *bə̆+ṭäräm* 'before (lit. when not yet)' usually takes finite complements. Verbs, too, generally select one type

or the other.

When a compound or complex noun sentence with two finite verbs is transformed into the complement of a preposition, and the first verb turns into an infinitive, the second verb normally remains finite in BH, even though it is also governed by the preposition. It continues to bear the same relationship to the infinitive that it did to the finite verb, whether it be consecutive (e.g., Gen. 39:18 *kahǎri²mi²ko ʷliʸ wǎ²ǎkrǎ²* 'when I raised [lit. upon my raising] my voice and cried out'; cf. 39:15 *hǎri²moṭiʸ ko ʷliʸ wǎ²ǎkrǎ²* 'I raised my voice and cried out'), circumstantial (e.g., Gen. 44:30 *kǝbo²iʸ ²äl-ʿabdǝkå ²ǎbiʸ wǝhan:aʿar ²eʸnän:u ʷ ²iṭ:ǎnu ʷ* 'upon my coming to your servant, my father, the boy not being with us'; cf. 44:34 *²eʸk ²ä ʿǎlä h ²äl-²ǎbiʸ wǝhan:aʿar ²eʸnän:u ʷ ²iṭ:iʸ* 'how can I go up to my father, the boy not being with me'), adversative (e.g., Exod. 12:27 *bǝnǎǧpo ʷ ²äṭ-miṣrayim wǎ²äṭ-båt:eʸnu ʷ hiṣ:iʸl* 'when he smote [lit. at the time of his smiting] the Egyptians but saved our houses [lit. our houses he saved]' [note the inverted word order], 1 Sam. 24:11 [12]) or repetitive (e.g., Ezek. 13:8; contrast Ezek. 25:6).

BH grammars do not distinguish those non-finite usages that correspond to the English verbal noun from those that correspond to the English infinitive, calling them all infinitives. The complementizer *lǎ/ǝ+* (etymologically, but not syntactically, identical to the preposition *lǎ/ǝ+* 'to, for') is not considered an adequate basis for distinguishing, since, in most of the environments which permit it, it is only optional (contrast Prov. 21:9 *ṭo ʷb lǎ+šäbäṭ ʿal-pin:aṭ-gåǧ* 'to dwell on the corner of a roof is better ...' with 25:24 *ṭo ʷb šäbäṭ ʿal-pin:aṭ-gåǧ* 'dwelling on the corner of a roof is better ...' and Deut. 22:19 with Deut. 22:29).

The MH situation is quite different, a sharp distinction having developed between two types of non-finite complements: an infinitive and another type reminiscent of the English verbal noun. The latter, frequently on the patterns *CǝCiʸCǎ h* (in *ḳal*) and *CiC:u ʷl* (in *piʿel*), is more noun-like than the former, appearing already in the Bible with the definite article and even the plural ending. The infinitive is the direct descendant of the old BH infinitive with the complementizer *lǎ/ǝ+*. That complementizer has become obligatory and inseparable: BH *mi+b:o ʷ* > MH *mi+l:ǎbo ʷ* '(prevent/refrain/delay) from/in coming', BH *lǝ+bilṭiʸ ʿǎso ʷṭ* 'to not do' > MH (*šä+*)*l:o² laʿǎso ʷṭ* 'not to do'.

The use of the infinitive rather than a finite complement in the imperfect was optional with some matrix verbs (contrast Demai 6:8 with Ketubbot 6:2, below, and Yevamot 9:3 with 13: 12) and obligatory with others; either way, it created a good deal of alternation between the infinitive and the imperfect, which, in turn, led to morphological contamination of the former by the latter. Thus, BH *lǎ+ṭeṭ* > MH *liʸṭ:en* 'to give', due to alternations like Makkot 1:1 *ro ʷṣä h liʸṭ:en* 'wants to give' ~ Avot 5:13 *ro ʷṣä h šä+y:iṭ:en* 'wants that he give'. Similarly, BH *le+²mor* > MH *lo ʷmar* 'to say', due to alternations like Demai 6:8 *yåko ʷl hu ʷ lo ʷmar* 'he is able to say' ~ Ketubbot 6:2 *yåko ʷl hu ʷ šä+y:o²mar* 'he is able that he say'.

Relative Clauses

In the fullest case relative clauses have a head, a relative conjunction (not a pro-
noun) and a so-called "resumptive" pronoun, e.g., Gen. 9:3 *kål-rämäś ᵓăšär hu*ʷ-
ḥay 'every mobile thing such that it is alive', Deut. 18:21, 22 *had:åḇår ᵓăšär loᵓ-
diḇ:ᵓro*ʷ *Y.* 'the thing such that the Lord did not say it', Gen. 28:13, Kilᵓayim 5:1,
Peᵓah 2:7.

Under certain conditions, one or more of these may be omitted. When the nouns
ᵓiʸš 'person', *dåḇår* 'thing', and *måko*ʷ*m* 'place' serve as the head, they may be
omitted, leaving behind any preposition which governed them and/or the word *kol*
'every', e.g., Exod. 35:23–24 *wəḵål-ᵓiʸš ᵓăšär nimṣåᵓ ᵓit:o*ʷ *… wəḵol ᵓăšär nimṣåᵓ
*ᵓit:o*ʷ 'and every person such that there was found with him … and every [person]
such that there was found with him …', Num. 31:23 *kål-dåḇår ᵓăšär-yåḇoᵓ ḇåᵓeš
… wəḵol ᵓăšär loᵓ-yåḇoᵓ ḇåᵓeš …* 'every thing such that it withstands fire … and
every [thing] such that it does not withstand fire …', Ruth 1:16, Berakhot 6:7, Ye-
vamot 2:3.

Resumptive pronouns which function as subject or object of the relative clause
are commonly omitted in all periods, yielding the gap type of relative clause. This
can create syntactic ambiguity. Thus, 2 Kings 19:12 *hag:o*ʷ*yim ᵓăšär šiḥăṭu*ʷ
*ᵓăḇo*ʷ*ṭay* 'the nations that my ancestors destroyed' can also mean 'the nations that
destroyed my ancestors', since the use of the direct object marker is not obligatory
(see p. 153).

Resumptive pronouns attached to nouns (e.g., the possessive pronoun in Deut.
28:49 *go*ʷ*y ᵓăšär loᵓ-ṭišmaᶜ lǝšono*ʷ 'a nation such that you do not understand its
language', Ketubbot 4:3) may not be omitted, but resumptive pronouns attached to
prepositions are occasionally omitted, especially in biblical poetry. When this
occurs, the stranded preposition is normally omitted as well, e.g., Deut. 28:27, 35
*šǝḥiʸn … ᵓăšär loᵓ-ṭu*ʷ*kal lǝheråpeᵓ* 'an inflammation such that you will not be
able to recover [from it]', Isa. 51:1 *ṣu*ʷ*r ḥuṣ:aḇtäm … mak:äḇäṭ bo*ʷ*r nuk:artäm*
'the rock [such that] you were hewn [from it] … the quarry [such that] you were
dug [from it]', Terumot 1:2. In rare instances, we find the stranded preposition
moved out of a headless relative clause and placed in front of *ᵓăšär*, e.g., Gen.
31:32 *ᶜim ᵓăšär timṣåᵓ ᵓäṭ-ᵓǎlohäʸḵå* 'with [the person] such that you find your
gods (will not live) = the person such that you find your gods with him (will not
live) vs. Gen. 44:9 *ᵓăšär yim:åṣeᵓ ᵓit:o*ʷ '[the person] such that it is found with him
(will die)', Num. 22:6, Ezek. 23:40.

Asyndesis with a finite verbal predicate is common in biblical poetry, especial-
ly when the antecedent of the relative clause is indefinite, e.g., Jer. 5:15 *go*ʷ*y loᵓ-
ṭeḏaᶜ lǝšono*ʷ *wǝloᵓ ṭišmaᶜ ma*ʰ*-yḏab:er* 'a nation [such that] you do not know its
language and you do not understand what they are saying' (contrast Deut. 28:49,
above). It is far less common in biblical prose and non-existent in the Mishnah. In
the linguistically modernized version of Isaiah found at Qumran many of the asyn-
detic relative clauses of the Masoretic version have been eliminated through the
activity of MH-speaking scribes who found them difficult to understand.

Hebrew has considerable flexibility in forming relative clauses. It allows types

whose English counterparts are ungrammatical, e.g., Exod. 33:1, Josh. 13:21–22 *si^{y}ho^{w}n mäläḵ hå^{ɔ}ămori^y ^{ɔ}ăšär [hik:å^h mošä^h ^{ɔ}oṭo^w wə^{ɔ}äṭ-nəśi^{ɔ}e^y miḏyån ... wə^{ɔ}äṭ-bil^{ɛ}åm bän-bə^{ɛ}o^{w}r ... hårə̆ḡu^w bə̆ne^y-yiśrä^{ɔ}el ...]* 'Sihon king of the Amorites such that [Moses smote him and the Midianite chiefs ... and the Israelites slew Balaam son of Beor]', 1 Sam. 25:11 *^{ɔ}ănåši^{y}m ^{ɔ}ăšär lo^ɔ yåḏa^{ɛ}ti^y ^{ɔ}e^y miz:å^h hem:å^h* 'men such that I know not where they are from'.

It also allows relative clauses to contain multiple resumptive pronouns, e.g. Deut 8:9 *^{ɔ}äräṣ ^{ɔ}ăšär ^{ɔ}ăḇånä^{y}hå barzäl u^{w}mehărårä^{y}hå taḥṣoḇ nə̆ḥošäṭ* 'a land such that **its** rocks are iron and from **its** hills you shall hew copper', 11:6, Avot 3:17, and – with asyndesis – Jer. 5:15 (see above). Sometimes the first of these pronouns will be omitted but not the second, yielding a hybrid of the gap and pronoun retention types, e.g., Gen. 26:18, Deut. 4:46–47, Jer. 28:3, Ezra 1:7.

BH permits the formation of relative clauses with two different antecedents, as long as they are immediate constituents of the same genitive noun phrase, e.g., Gen. 24:24 *bän-milkå^h ^{ɔ}ăšär yålə̆ḏå^h* 'the son of Milkah such that **she** bore [**him**]', 2 Sam. 16:23 *^{ɛ}ăṣaṭ ^{ɔ}ăhi^{y}ṭopäl ^{ɔ}ăšär yå^{ɛ}aṣ* 'the advice of Ahithophel such that **he** gave [**it**]' (contrast 17:7 *hå^{ɛ}eṣå^h ^{ɔ}ăšär yå^{ɛ}aṣ ^{ɔ}ăhi^{y}ṭopäl* 'the advice such that Ahithophel gave [**it**]), Gen. 45:27, Exod. 5:14, Deut. 5:24, 1 Kings 15:30, 2 Kings 17:22, Ps. 107:2.

In addition, BH does not require the resumptive pronoun to be in the 3rd person. In syndetic relative clauses modifying the nominal predicate of a 1st or 2nd person pronoun, the resumptive pronoun is normally in the same person, e.g., Judg. 13:11 *ha^{ɔ}at:å^h hå^{ɔ}i^{y}š ^{ɔ}ăšär-dib:artå ^{ɔ}äl-hå^{ɔ}iš:å^h* 'are you the man such that **you** spoke to the woman?' The same is true of syndetic relative clauses modifying a vocative noun but not asyndetic ones; contrast Isa. 41:8 with 44:1.

Finally, it is worth noting that biblical style has no aversion to sentences crammed full of relative clauses. Deut. 11:2–7, with its ten relative clauses embedded at four different levels within a complement clause embedded at a fifth level, is probably about as close as one can come to infinite recursion in the real world.

Notes

Our italicized transliteration of the Masoretic pointing is based on the views of the Masoretes themselves rather than those of later theoreticians like Joseph Ḳimḥi. Thus, we distinguish seven vowel qualities: *i*, *e*, *ä*, *a*, *å*, *o*, *u*. (The choice of Swedish *å* and *ä* to represent and is based, in part, on parallels in the historical development of these vowels.) We indicate quantity in *ə̆*, *ä*, *ă*, and *å*, but the superscript letter in *i^y*, etc. does not represent length. Whenever a letter is left unpointed in the Masoretic text of the Bible (mainly א ^{ɔ}, ה *h*, ו *w*, and י *y*, but in several instances צ *ṣ* and שׁ *š*), we indicate that fact using superscript signs: ^{ɔ}, ^{h}, ^{w}, and ^{y}. The Masoretes viewed all such letters as quiescent, unlike Ḳimḥi, who considered some of them to be markers of vowel length.

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10 Phoenician and the Eastern Canaanite Languages

Stanislav Segert

Hebrew (see Chapter 9), Phoenician, languages of the area east of the Jordan River: Ammonite, Moabite and Edomite, moreover Ugaritic (see Chapter 8) and early Canaanite words and constructions in the Akkadian texts of El-Amarna, Egypt, constitute the Canaanite branch of Semitic. Except for Hebrew, they all died out in antiquity and were forgotten till the inscriptions were deciphered, from the eighteenth century on (many were found in the nineteenth century, some recently). In the Eastern Mediterranean, Phoenician was used until the first century BCE. In North Africa it survived until the fifth century CE.

As against the well-attested Hebrew, its Canaanite neighbors are only known from a few hundreds of epigraphic sources (i.a. seals) from the first half of the first millennium BCE, many of them fragmentary or short. From the presumably rich literature of the Phoenicians, the inventors of the alphabetic script, nothing survived in the original. Many thousands of inscriptions, most of them the same type of votive formulae, have survived in North Africa, mostly at Carthage (in today's Tunisia), destroyed by the Romans in 146 BCE, written in the late Phoenician dialect, Punic. A few of these are in Greek or Latin letters. The Roman playwright Plautus inserted a Punic conversation, in Latin script, in his play *Poenulus* (about 200 BCE).

The Phoenicians lived roughly in the territory which is Lebanon today. Through colonization, they exported their language to other areas of the Mediterranean. Besides the ancient dialect of Byblos and the conservative homeland Phoenician, written in a strictly consonantal spelling, the dialect of Cyprus shows some differences. The Punic dialect developed in Carthage around the middle of the first millennium BCE. After its destruction, Late Punic (or Neo-Punic) was used for many more centuries in North Africa and in Sardinia. Two inconsistently used writing systems were introduced for Punic, where vowels were indicated by originally consonantal letters.

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All the languages mentioned in this chapter were forgotten. Only in the eighteenth century was the Phoenician alphabet deciphered. The close relationship of these languages to Biblical Hebrew helped a great deal. Many important texts were discovered in the nineteenth century, e.g. the inscription of Mesha, king of Moab, but even recent times enriched the inventory, such as the Ammonite inscriptions.

The following abbreviations will be used below: Ph. (Phoenician), Pu. (Punic), LPu. (Late Punic), OBy. (Old Byblian), Cy. (Cyprus dialect), A (Ammonite), Mo. (Moabite), E (Edomite), Heb. (Hebrew), Ug. (Ugaritic). Italics are used only for words attested in the ancient texts, while reconstructed forms are indicated by roman letters. Greek and Latin sources are distinguished by using lower case and capital letters respectively.

Semitic characters: *italic*
Greek and Latin characters: *sans serif italic*

Phonology

The Consonants
The twenty-two letters of the alphabet invented by the Phoenicians are adequate to render the Canaanite consonant system tabulated below:

	ꜣ	h			
	ꜥ	ḥ			
q	g	k			
	š			y	
ṣ	z	s	l		
ṭ	d	t	r	n	
	b	p		m	w

Changes of Consonants
Spirantization can be observed only in Punic: for 'I', both *anec* and *anech* appear in the Poenulus text. Preconsonantal *n* was mostly assimilated to the following consonant, even if *-n* belonged to a preceding closely connected word: *mn* 'from', A *mʾlt* 'from Elat [goddess]', Mo. *mʿlm* 'from the age', also in Byblian: *bn* 'son of' – *byḥmlk* 'son of Yeḥimilk'; Late Punic has exceptions: *mnṣbt* 'stela'.

The laryngeal *h could be changed to *y* by partial assimilation to a contiguous *i* in Phoenician and Punic as in the causative prefix **hi- > yi-*, e.g. Cy. *yqdšt* 'I consecrated', or some forms of the sg. 3m./f. suffix pronoun: **-h- > -iy-*, OBy. *mšpṭh* 'of his rule', but Cy. *ʾby* 'his father'.

Evidence of Vowels
Phoenician used no signs for vowels. In the latest period of Punic two systems of

using consonantal letters for vowels were introduced. One used phonetically re-
lated consonants: *y* for /i/, *w* for /u/, ʿ for /a/ and ʾ for various vowels. The other
system followed the Latin model of using originally consonantal Semitic letters:
y for /i/, *h* for /e/, ʾ for/a/, ʿ for /o/ and *w* for /u/.

The Moabite and Ammonite vowel marking corresponds to the Hebrew use of
matres lectionis: *y* for /i:/, *w* for /u:/ and -*h* for long final vowels /-a:/ and /-e:/.

Diphthongs
It is not always clear where -*w*- or -*y*- between two consonant letters indicate diph-
thongs /-aw-/ or /-ay-/, or the results of their monophthongization: /-o:-/ or /-e:-/
respectively. Even information available in other scripts may be ambiguous, e.g.
the Phoenician words quoted from Sanchuniatōn in the Greek book by Philo of
Byblos: *mōt* and *mouth* 'death', *baitylon* and *bētylon* from **bayt-* > **bēt* 'house'.
The sg. 3m. pronoun suffix /-o:/ developed from **-a(h)u*: By. *ʾdtw* 'his lady', Pu.
qlʾ, *koylō* 'his voice'.

Reduced and Assimilated Vowels
Some Greek and Latin transcriptions of Punic words may point to the existence of
reduced vowels, indicated by the Greek letter *Y*: *ys*, *sy* 'which'. Assimilation of
vowels to vowels may be observed as well: *u-ulech* 'the visitor' (< **(h)a-*).

The Canaanite Shift
Primary and secondary long **a:* led to /o:/ as in Hebrew. In the alphabetic script
this marked by the letter *w*: A *ʿmwn* 'Ammōn', proper name E *ʿqbwr* 'Aqbōr';
place name Mo. *daibōn*. The element -*u*- in the Assyrian cuneiform writing also
indicates the pronounciation [o:].

This shift went farther in Phoenician. **a* > *o:* and long **a:* > *u:*. A convenient
example is the word for 'Aion, eternity' /ʾu:lo:m/, written in Greek letters as
oulōmos, cf. Heb. *ʿōlām* (< **ʿa:lam*), cf. *sufet(es)*.

Morphology

Pronouns

Independent Personal Pronouns

- Sg. 1 appears in the longer form: Ph., Pu. *ʾnky*, Ph., Mo. *ʾnk*, Pu. *anec* and
  anech.
- Sg. 2m./f. are written in Ph. *ʾt*.
- The written form *hʾ* is used for sg. 3m./f. in Phoenician, Punic and Moabite.
  In Late Punic *hy* is attested for sg. 3f. The Punic form of sg. 3m. *hy* may be
  understood as an indication of **hu* > [hü:]. Old Byblian has *hʾt* for 'he' in

the nominative (cf. Ug. *hwt*).

- Pl. 1 *'nḥn* does not indicate the character of the final vowel.
- No pl. 2 forms are attested.
- Pl. 3 *hmt* is used for m. in Phoenician, f. in Cyprus dialect. Moabite *hm* appears as an object after a verb.

Personal Pronoun Suffixes after Nouns and Prepositions

- Sg.1 written as -*y* may be reconstructed as /iː/ in Moabite, Ammonite and in Punic *donni* 'my lord', with pl. f. *bynuthi* 'my daughters'. In Northern Phoenician the pronoun is not written in the nominative, e.g. *'ab* 'my father' (*/-iː/), but it is in the genitive: *'by* 'of my father' (*/i(y)a/).
- Sg. 2m. Ph. and E -*k*. Sg. 2f. LPu. -*ky*.
- The sg. 3m. is written -*h* in Moabite and Ammonite, but Phoenician and Punic have -*h* *-*ih* for the genitive, zero in the accusative in Northern Phoenician, perhaps *-*o:* written -*w* in Old Byblian. In later Phoenician and Punic -*y* may stand for *-*yu* < *-*hu*. The Punic form -*o:* is written as *'*; *koylō* 'his voice'; in Late Punic also -*'*. Late Punic also has -*y'* and often *-*im*: *bnm*, *binim* 'his son'.
- Sg. 3f.: Mo. and By. -*h*, Ph. -*y*, MPh. zero (*-*a?*), Pu. -*'*, LPu. *'* (*'*), *byne* 'her son', -*m*.
- Pl. 1c. Ph. and Pu. -*n*, LPu. *rbtn* and *rybathōn* 'our lady'.
- Pl. 2 not attested in Phoenician, -*km* in Moabite.
- Pl. 3m. -*m* in Phoenician and Punic; Late Punic *bunom* 'their son'; Cy. and Pu. -*nm*, e.g. Cy. *nḥtnm* 'their repose'.

Forms attached to duals and plurals with masculine ending may differ in writing from those with singular and feminine plurals: sg.1c. -*y*; *-*ay*. Sg. 2m. LPu. *(b)aiaem* 'in his life'.

Personal pronouns suffixed to particles are the same as above: *li* 'to me' (Ph. *ly*), *(syl)lohom* '(which belongs) to them'.

Object pronouns attached to verbs differ from the possessive suffixes in sg. 1: -*n* (* -*niː*), e.g. Ph. *p'lt-n* 'she made me'.

Deictic Pronouns

Demonstratives

Near demonstratives are derived from the base *δ*- > *z*- in both Phoenician and other Canaanite languages. In later Phoenician and Punic other sibilants are also written: sg. m. 'this' *z*, *'z*, Cy. *z'*, later *s*, *st*, *syth*. The same forms are used for sg. 2f. in Phoenician and Punic, but *z't* in Moabite. Older Phoenician dialects have *zn*. The pl.c. 'these' is written Ph. and Pu. *'l*, LPu. *ily*.

Distant demonstratives are identical with the 3rd person personal pronoun: *h* 'that', *hmt* 'those'.

The Definite Article
Its original form was *ha with doubling of the subsequent consonant. This doubling is attested in LPu. ʿmmqm for ham-m- 'the place'. In older stages of Phoenician, Punic, Moabite, Ammonite and Edomite the article is written as h-.

In Ammonite the initial *ha- was weakened or eliminated, as indicated by the use of other letters, ʾ-, ʿ-, ḥ- or by the initial vowel in Greek and Latin transcriptions *amathēd* 'the gift', *aelichot* 'the hospitality'. Vowel assimilation is found in Punic: *uulech* 'the guest'.

Determinative/Relative Pronouns
Phoenician and Punic have ʾš, YS, ys, šʿ, sy, si, OBy. z- 'which'.

Interrogative Pronouns
The pronoun 'who?' is m- in Phoenician (cf. Old Canaanite El-Amarna *mi-ya*), *my mi* in Punic.

'What' is also written m- in Phoenician. The Punic form in Latin letters and prosthetic vowel *ymu* points at an original *ma: > mu:.

The Indefinite Pronoun
The form *mnm* 'anything' in Phoenician and Punic resembles Ug. *mnm* and Akkadian *mi:numme:*.

Nouns

Formation

Short Roots
This is a very limited set.

- Monoconsonantal: Ph. *p(y)* 'mouth', š 'sheep'.
- Biconsonantal: kinship terms Mo., A, E, Ph. ʾb 'father'; Ph., Mo., A *bn*, Pu. *bn, byn* (*bün*) 'son'; body parts: Mo., A, Ph. *yd*, LPu. *yadem* (du.) 'hand'.

Triconsonantal Roots
The monosyllabic base CVCC survived before a vowel; otherwise an anaptyctic vowel was inserted between the last two root consonants: *šurš > syris* 'root'.

Due to the very rare use of vowel letters in the Canaanite script, the various types of triconsonantal groups cannot be recognized; some information is provided in other scripts, e.g. the pattern *qu:tel* used for active participles: *špt*, pl. *sufet(es)* 'judge'. Likewise, doubled consonants cannot be identified, but Late Punic has *ymman(ai)* 'craftsman'.

Quadriconsonantal Roots
Reduplicated biconsonantal base in Phoenician: *glgl* 'wheel', with reduced second

radical *kbkb (as in Ugaritic) > kkb (cf. Heb. ko:ka:b) 'star', E proper name blbl.

Nouns with Prefixes and Afformatives

The most common prefix, with various functions, is m(V)-: LPu. myqdš 'sacred place', Mo. mslt (f., root sll) 'road'. Ph. mqm. Pu. macom 'place' (root qwm), Ph. mmlkt 'kingdom'. A mqn- 'possession' (root qny).

The prefix t- is used mostly in feminine nouns: LPu. tklʾt, thycleth 'expense'.

Initial ʾ may indicate a prosthetic vowel: Ph. ʾgdd(m) 'band(s)', or a prefix: Ph., Pu. ʾrbʿ 'four'.

The prefix ʿ probably indicates intensity, "very numerous" used as in the word for 'mouse' ʿkbr; it serves as a proper name in Phoenician, Punic and Ammonite.

The most frequent afformative is -n: *-a:n > -o:n, later -u:n: Ph. ʾdn, Pu. donn(i), LPu. adoyn 'lord'.

The Feminine Ending

The ending -t may directly follow a consonant or be preceded by a vowel: -a/-i:/-u:t.

After a consonant: Pu. mysyrth 'righteousness', Pu. passive participle byrychth, berict 'blessed'; assimilating a preceding -n-: Ph. ʾlmt 'widow'); Ph. and Mo. (as in the North Israelite ostraca of Samaria): št 'year' (< *šnt).

In Moabite and most probably in Ammonite, -t appears in the absolute state, Mo. (h)mslt 'the highway'. In Phoenician and Punic -at becomes -o:t: -mil-ku-ut-ti (for -milko:t) 'queen'. Construct state Ph. khnt 'priestess', Pu. amot- 'maid servant'.

Abstract nouns have the ending: -V:t, Ph. ʾt: rʾšt 'first quality', ʾbt 'fatherhood'.

States

The written forms of the construct state ('NOUN of') and the absolute state (other contexts) can be clearly distinguished in the duals and masculine plurals, see pp. 179–180 for examples.

Number

Singular

No special marker.

Dual

The original marker *-ay was monophthongized to -e:. In the absolute state, Phoenician has a further -m, Mo.: -n. Ph. construct state ʿn 'two eyes of', Pu. absolute state iadem 'two hands'; Ph. šnm, Pu. (l)isnim 'two'. The feminine marker precedes this: Pu. mʾtm, Mo. mʾtn '200', NL qrytn 'twin cities'.

Plural

Masculine absolute state has the ending Ph., Pu., A -*i:m*, Mo. -*i:n*: Ph., A *'lm* 'gods', Pu. *gubulim* '(boundaries >) territory'; Mo. *ymn* 'days'. Phoenician of Arslan Tash has both: *'lm* 'gods', *qdšn* 'the holy ones'.

The noun for 'heaven' is a plural with endings similar to those of the dual, Ph. *šmm*, *sa-ma-me*, LPu. *samen*.

The pl. m. construct state ending is the same as the dual -*e:*: Mo. *ymy* 'days (of)', Pu. *phene*, LPu. *pn'/pn'* 'faces (of)'.

The pl. f. has -*t* in both states, for -*o:t* in Moabite and Ammonite, -*u:t* in Phoenician: Mo. abs. *gbrt* 'women', A abs. and Ph. *šnt*, LPu. *sanuth* 'years'. In Punic the plural of words for deities can be extended by -*o:n*-: *'lnm*, *alunim* 'gods', *alon(i)uth* 'goddesses'.

Normally, nouns have endings of the same gender in the singular and in the plural. For some nouns, both kinds of endings are attested. Some feminine nouns with no feminine marker have feminine plurals: Ph. *'rṣ/'rṣt* 'land/s', Mo. *mgdl* 'tower', *mgdlt(h)* 'its towers'. Masculine nouns with pl. f. endings: Ph. *šm* 'name', pl. LPu. *šm't*. Feminine nouns with pl. m. endings: Ph. *'bn* 'stone' (f. with no f. ending), pl. Pu. *'bnm*. Masculine nouns with both endings: Ph. *ym* 'day', pl. Ph. *ymm*, Mo. *ymn*, but OBy. *ymt*, Pu. *ymmoth*, A *ywmt*. Note Ph. *p'm* 'foot', pl. Pu. *p'mm* 'feet', but *p'm't* '(14) times'.

Case Endings

Case endings are indicated (1) in proper names in the cuneiform script: *ma-ti-nu-ba-'-li*, lit. 'Gift of Baal', with nominative -*u* and genitive -*i*, from the ninth century BCE; cf. *ma-ta-am-ba-a-al* with no case marking, from the seventh century BCE; (2) with a sg. 1c. possessive ending: Ph. nominative *'b* 'my father' for *[abi:], genitive *'by* 'of my father' for *[abiya]. (3) Punic words in Latin and Greek letters show case distinctions as well: genitive (governed by a preposition) *li-binim* 'to his son', accusative *koylō* 'his voice' (*ō* < -*ahu*).

Adjectives

Morphologically they behave like substantives, e.g. Pu. *lbn*, *labon* 'white', pl. m. Ph. A *rbm*, Mo. *rbn* 'great, numerous'. They can be derived from geographic names by means of the nisbe *-*iy*: Ph. *ṣdny/ṣdnt/ṣdn(y)m* 'Sidonian (m./f./pl.)', Cy. *qrṭḥdšty* 'Carthaginian'.

Numerals

Cardinal Numerals

Numbers are mostly spelled out in words in Phoenician and Moabite. The short Ammonite and Edomite texts have number signs.

1   (an adjective) m.: Pu. *'ḥd*, LPu. *ḥd*; f.: Pu. *'ḥt*
2   (nouns in the dual) m. abs. Ph. *šnm*, LPu. *(l)isnim*, construct state Pu.

šn. For the gender of numerals 3–10 see Agreement Rules, p. 185 for polarity.

3	Ph. m. *šlšt*, f. *šlš*, LPu. *š'lš*, *salus*
4	Ph. *'rb'(t)*
5	Ph. *ḥmš(t)*
6	Ph. *šš(t)*
7	Pu. and Mo. *šb't*
8	Ph. *šmn*, *šmnh*
9	Pu. *tš'*
10	Ph. and Pu. *'šr(t)*, LPu. *'šrt*
20	Pu. *'srm*, LPu. *ysrim*
30	Ph. *šlšm*, Mo. *šlšn*
100	Ph. and Mo. *m't*
200	Pu. *m'tm*, Mo. *m'tn*
300	Ph. *šlš m't*
1,000	Ph. and Mo. *'lp*

Composite numbers were in Phoenician most often connected by *w-* 'and', e.g. Pu. *'šr wšnm* '12'. A numeral may take a suffixed pronoun: LPu. *'rbtnm* 'four of them'.

Ordinal Numbers

In Phoenician, ordinal numbers were formed by means of the derivational suffix *-iy*: (cf. Adjectives, above): Ph. *šny* 'second', Pu. *'rb'y* 'fourth'.

Expression for 'all'

The substantive for 'all' appears in the absolute state in Ph. *kl*, more frequently in the construct state Ph. and Mo. *kl*, Pu. *chll*, *chyl*; also with suffixed pronouns: LPu. *kl'* 'all of him'.

Verbs

Categories

Verbal roots consist of three consonants. They are preserved in strong verbs. In various classes of weak verbs either some root consonants were changed or eliminated, or, some classes had only two root consonants and a long vowel as a third radical.

The "verbal patterns" express both "manner of action" – simple, intensive (or factitive), causative – and verbal voice – active, passive, reciprocal, reflexive.

The finite verbal forms exhibit person and number; in most forms of the 2nd and 3rd person grammatical gender is also distinguished.

The indicative has two tenses: perfect for past and imperfect for nonpast. The other moods are: jussive, *modus energicus* and imperative.

The verbal nouns are the two infinitives: absolute and construct, and the verbal

adjectives: the participles.

Verbal Classes

Strong Verbs
All consonants are preserved in all forms of the verb.

Weak Verbs

Assimilation of *n*   The consonant *n* assimilates to an immediately following consonant: in most prefix forms of I*n* verbs: Ph. *yš^ʾn* 'they will bring' (√*nš^ʾ*) and also in some forms with *n* as the third radical. In the verb Ph., Mo. √*lqḥ* 'to take', the liquid assimilates to the following *q*, e.g. Ph. *yqḥ* 'he will take'.

The laryngeal ʾ   may occur in any position. At the end of a syllable it may be dropped, e.g. Pu. *corathi* 'I invoked' (root √*qrʾ*). In Late Punic, the original root consonant ʿ could be dropped and the verb made "weak" as in verbs with ʾ, e.g. Ph. √*pʿl* 'to make', Pu. *fel* 'he made'.

Initial *y*   Whether original or coming from *w*, initial *y* disappears in forms with personal prefixes, in imperatives and infinitives: Pu. *lech* 'go', *ytn* 'he may give' (√*ytn*).

Last two radicals identical (√1-2-2)   In some forms there is contraction: Ph. *tm* 'it was accomplished'.

Final semivowel   The weak consonant ~ semivowel survives in some forms. In contact with vowels, it assimilates yielding a long vowel: OBy. *bny*, Ph. *bn* 'he built', LPu. *avo* 'he lived'.

Mid semivowel   *w* and *y* appear in some forms. This middle element may have originally been a long vowel. This class differs the most from the strong verbs.

Verbal Forms with Suffixed Pronouns
Object pronouns are like the possessive ones (see p. 177) except for sg. 1c. which is *-n* (*-niː*).

Verbal Forms

Perfect Forms
Using afformatives, they express the past.

- Sg. 1c. *-t/-ti*: Pu. *corathi* 'I called', Mo. *mlkty* 'I reigned'
- Sg. 2m./f. both written with *-t*: m. LPu. *šmʿt* 'you heard', f. Ph. *šlḥt* 'you sent'
- Sg. 3m. *-Ø*, Pu. *pʿl* 'he made'; Ph., Pu., A *ndr*, Pu. *nadōr* 'he vowed'; IIIy: Mo. *bnh* 'he built', Pu. *avo* 'he lived'; IIw: Pu. *chon* 'he was'

- Sg. 3f. Pu. *-a: > *-o:: ndr³ 'she vowed'; before a pronoun suffix the original *-t is preserved: Ph. p⁽ltn 'she made me'
- Pl. 1c. -n: LPu. p⁽ln 'we made'
- Pl. 3c. *-u:: Pu. p⁽l³, felu 'they made'

Imperfect Forms

These express the present or the future. All persons have prefixes, sg. 2f. and pl. 2/3 m./f. use further afformatives.

- Sg. 1c. ³-: Ph. ³p⁽l 'I shall make', Pu. ythmum 'I shall accomplish'
- Sg. 2m. and 3f. t-: Ph. tšm⁽ 'you hear', Pu. tšm⁽ 'she hears'
- Sg. 3m. y-: yp⁽l 'he makes', Mo. y³np 'he is/has been angry'
- Pl. 2m. t- ... -u:: LPu. tšm⁽ 'you hear'
- Pl. 3m. y- ... -u: (A: -n): Pu. yzbḥ 'they offer', Pu. (pi⁽el) ibarcu 'they (may) bless', A ymtn 'they will die'

In Moabite, the imperfect preceded by w- expresses the past (see Chapter 9, Ancient Hebrew, p. 156).

Volitive Moods

The **jussive** forms look similar to the imperfect; they can be identified mainly by the context: sg. 2m. Ph. (³l) tšm⁽ '(don't) listen!'.

The energic mood has a suffix -n: Ph. ³pqn 'may I get!' (√npq), Ph. yš³n 'may they bring' (√nš³).

Imperative: sg. m. Ph., E ³mr 'say!', Pu. lech and Mo. lk 'go!' (√hlk), pl. m. pi⁽el LPu. brk³ 'bless'.

Infinitives

Absolute infinitives strengthen the meaning of a subsequent finite verb with the same root in Phoenician and Moabite: Ph. ptḥ tptḥ 'you will indeed open!'

Construct infinitives take prepositions and suffixed pronouns referring to the subject: Pu. lictor 'to approach' (√ktr), Ph. lp⁽l and Pu. liful 'to make'; sibitthim (√yšb) '[the fact of] his dwelling'.

Participles

- Basic active: sg. m. Ph., Pu. p⁽l 'making/maker'; Ph. Pu. špt, Pu. sufet(es) 'judge(s)', Pu. rp³ and rufe 'physician (< healer)'; sg. f. škbt 'lying'; pl. m. Ph. p⁽lm 'making (ones)' and Pu. dobrim 'saying (ones)'.
- Basic passive: Pu. brk 'blessed', Pu., NP buruc, baric /barük/.
- Participles of the nip⁽al have the prefix n-; the intensive and the causative have m- in Phoenician (see Intensive active, p. 184).

Derived Patterns

Basic internal passive marked by the vowel *-u-* after the first consonant: sg. 3m. perfect LPu. *qybr* ([qü-?] < **qu* ...) 'he was buried'.

Basic reflexive marked by an infixed *-t-*: OBy. *thtpk* 'may she be turned over!', Mo. *hlthm* 'fight!'.

Reciprocal/passive (*nip'al*) marked by a prefix *n-*: LPu. *np'l'* for sg. 3f. and pl. 3m. 'she was/they were made'

Intensive active (*pi'el*): The geminate mid radical is marked in Punic only: *balsil-lec* 'Baal saved'. After the first root consonant, the vowel is *i* in the perfect: LPu. *hydš* 'he renewed', *dyburth* 'I spoke'. Imperfect: Pu. *ibarcu* 'they bless', imperative LPu. *brk'* 'bless_{pl}!'. Participle: Pu. *m'rh, merre* 'guiding'. In verbs with weak or repeated mid consonant ($\sqrt{}$1-2-2), the type *pōlel* may be reconstructed: participle Ph. *mtpp* 'drummer'.

Intensive passive (*pu'al*): perfect Ph. *ksy* 'he was covered'.

Intensive Reflexive (*hitpa'el*) marked by a prefixed *-t-*: perfect *htqdš* 'he sanctified for himself'. In verbs with *w/y* as mid consonant or $\sqrt{}$1-2-2, as above, the last consonant is repeated with *ō* between the first two: Ph. *ytlnn* 'they grumble (to themselves)' ($\sqrt{}$*lwn*).

Causative active (*hip'il*): Eastern Canaanite kept the prefix *h-*: Mo. *hr'(ny)* 'he let (me) look down', E *(w)hbrkt(k)* '(and) I blessed (you)'. In Phoenician, assimilation produced **hi > yi-*: Cy. *yqdšt* 'I consecrated', LPu. *'yqdš* 'he consecrated'.

Causative passive (*hop'al*): perhaps *ypqd* 'they were commissioned'.

Adverbs
Some are derived from nouns: LPu. *mt'* 'below'.

Existence, Negation
Mo. *'n* 'there is not'; *'d*, Pu. *(b)od(i)* 'there is yet'; Ph. *bl* 'not', also *'y*, prohibitive *'l*.

Prepositions
Common to all Canaanite languages are *l-*, Pu. *la-*, *li* 'to'; *b-*, Pu. *bi-*, *by* 'in'; *k-* 'as'; *'l* 'to'; *'t* 'with'; *mn*, Pu. *min* where *n* is often assimilated 'from'; *'l*, Pu. *aly* 'upon'.

The preposition introducing the direct object was shortened in Late Punic: By. *'yt*, Ph. and Mo. *'t*, Pu *yth*, LPu. *t, th-*.

Compound prepositions: Ph. *bd* 'through' (lit. 'in + hand'); Ph. *l* + *m(n)* + *b(hyy)* 'during' ('my life time').

Conjunctions
Coordination: *w-*, Pu. *u-* 'and'; Ph. *'p*, Pu. *p*, Mo. *gm* 'also'.
    Subordination: Mo. *ky*, Ph. *k chy* 'because'; compound Ph. *km 'š* 'like'.
    Conditional Ph. *'m* 'if'.

Interjections

Rare instances: OBy. *hn* 'behold', Ph. *l-* perhaps for vocative. Precative perfect, Pu. *ḥwʾ*, *avo* 'may he live' was also used as an interjection.

Syntax

Word Order

In nominal clauses, the subject–predicate order prevails: Ph. *ʾnk yḥmlk* 'I (am) Yeḥawmilk', Mo. *wbr ʾn* 'and there was no cistern'; also when the verb is a perfect: Mo. *ʾby mlk* 'my father ruled', but also PS Ph. *pˤln bˤl* 'Baal made me'.

PS is found in subordinate clauses: Ph. *k mlk ṣdq hʾ* 'for he (is a) righteous king'; also with a verb in the perfect: Mo. *ʾrn z pˤl ʾtbˤl* 'the sarcophagus that Itobaal made'; Pu. *ʾš ndr mgn/ys nadōr sōsipatios* 'which Magon/Sosipatios pledged'.

In sentences with prefix-conjugated verb, the subject follows the predicate: Mo. *wyʾmr ly kmš* 'and Kamosh said to me', Ph. *ytlnn mškbm* 'the settlers grumbled'; jussive: *thttpk ksʾ* 'may the throne be overturned!', also with the absolute infinitive: *wqrʾ ʾnk* 'and I invoked'. Yet the word order is flexible and topics are put in the front.

Appositions, attributes and adnominal adjuncts follow the governing nouns.

Agreement Rules

Agreement rules involve number, gender and person from the subject to the predicate. Additionally, adjectives also agree in definiteness: *hʾlnm hqdšm* 'the holy gods', cf. older Ph. *lʾlm ʾdrt ʾš* 'to the noble deity$_{\text{abstract plural}}$ Isis'.

The principle of polarity applies to numerals 3–10: Pu. *ʾšrt hʾšm* 'ten men' (numeral with *-t*) vs. *šnt šlš* 'three years'.

Questions

There is an optional initial sentence-question particle *h-*: E *h-šlm* 'is there peace/well-being?', vs. Ph. *w-šlm ʾt* 'and are you healthy?'.

Interrogative pronouns: Pu. *mi ... ianna* 'who will answer?'; A, PN *mnr* 'who is Light?'; impersonal Pu. *mu phursa* 'what is the meaning?'.

Coordination, Conditional

Clause constituents or components of the same function are coordinated by *w-* 'and'. The "and" clause may express subsequent action or situation, or be adversative: Ph. *wkn ʾb ... wkn ʾḥ ... wʾnk* 'and there was my father ... and (then) there was my brother ... , but(!) I ...'.

In conditional constructions, the apodosis is introduced by *w-*. The protasis is introduced by *ʾm* or *ʾl* 'if' or the relative particle; real conditional has the imperfect, the unreal one the perfect: *wʾl mlk ˤly gbl* 'and if a king should go up against Byblos'.

Subordination

Subordinate clauses are introduced by conjunctions or particles. Complement clauses have *k*, *chy: yd^c* ... *k yd^c* 'may they know that (the community) knows'. Comparative clauses begin with Ph. *k* or *km ʾš*. The conjunction Ph. *k*, Mo. *ky* introduces temporal and causal clauses: Mo. *ky.yʾnp.kmš* 'because Kamosh was angry'. Purpose clauses have Ph. *lkn* 'in order that', negative *lm* 'lest': Ph. *lm ys-grnm* 'so that they may not deliver him'.

Relative clauses, often very short, serve mostly as appositions to nominal constituents: Ph. *b^cl* ... *ʾš lgbr* 'B. that is of G.', Pu. *amma silli* 'mother of mine'. A relative clause may be attached to an incomplete clause consisting of a subject only or may stand alone in votive texts: *ndr ʾš ndr* 'vow that he vowed', *ys nadōr* 'which he vowed'.

Other Syntactic Phenomena

In Phoenician, the verb 'to be' √*kwn* is used for the past and the plusquamperfect, but not in the present: *ʾš kn lpnm nšt^cm* 'what had been feared earlier'. The same verb with *l-* expresses possession: *ʾl ykn lm mškb* 'may they have no resting place'. This may be also expressed by *l-* alone: *lkhnm ksp* 'the priests (shall have) money'.

Prepositions are governed by the verb, hence some special meanings: for *^cl*, usually 'upon', OBy. *wnḥt trbh ^cl gbl* 'and may peace flee **from (above)** Byblos'; for *b-* usually 'in' Ph. *wʾl y^cmsn bmškb z* 'and may he not carry me **from** this resting place'.

Lexicon

The majority of Phoenician inscriptions are monotonous, repeating one formula. Inscriptions in Eastern Canaanite languages are rare and mostly short. Thus the information about lexicon is scarce. The common verb for 'to make' is Ph. *p^cl*, Mo. and Heb. √*^cšy*, A √*^cbd*. 'To give' is Ph. and Ug. √*ytn*, but Mo., A and Heb. √*ntn*.

Further Reading

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11 Classical Arabic

Wolfdietrich Fischer

Historical Background

Classical Arabic before Islam

Pre-Islamic Inscriptions
Centuries before the rise of Islam, Arab tribes had already immigrated into the regions of Palestine, Syria and Mesopotamia. Arabs formed the dominant group among the inhabitants of Palmyra, which was controlled for a long time by a dynasty of Arab origin until the Romans destroyed their kingdom in 273 CE. Between the first century BCE and the third century CE the Nabateans established a state reaching from Sinai in the west to northern Hejaz in the east and from Madā'in Ṣāliḥ in the South to Damascus in the North, with Petra as its capital. The Arabic-speaking tribes of Palmyra and the Nabateans both used Aramaic in writing, but the influence of Arabic is clearly attested in their inscriptions by the occasional use of Arabic vocabulary and in particular by numerous Arabic proper names.

Ancient Arabic Dialects
The text corpus of preislamic Classical Arabic (CA), for the most part poetry going back to the sixth and seventh centuries CE, was recorded by Arab philologists in the eighth and ninth centuries. At the same time these philologists composed works about grammar and gathered vocabulary. Pre-Islamic CA was not the uniform language that it seems to be in the obviously standardized form of the transmitted texts. The Arab philologists speak about a dialect split between the western area of Hejaz and the eastern area of the Tamīm and other bedouin tribes. The phonemic glottal stop preserved in the eastern dialects had been replaced in the dialects of Hejaz by vowels or semivowels, e.g. Eastern *ra'sun* 'head', *su'a:lun* 'question', *ka'i:bun* 'sad' versus Hejaz *ra:sun*, *suwa:lun*, *kayi:bun*. With respect of the status of the glottal stop, the CA standard is based on the eastern dialects, but the CA spelling reflects the Hejaz dialect.

Classical Arabic after the Rise of Islam
The Qur'an, the first literary text written in CA, is composed in a language broadly

identical to that of the ancient poetry. After the spread of Islam CA became the ritual language of the Muslims and the language of learning and administration. The increasing number of non-Arabs who struggled to participate in the new civilization on the one hand, and the will of the Muslims to protect the purity of the revelation on the other hand, made the establishing of grammatical norms and institutions of language teaching inevitable. The development of grammatical norms took place in the course of the eighth century, linked with a process of unification and standardization of the educated language. Forms and expressions peculiar to pre- and early Islamic poetry as well as the Qur'an disappeared from prose during the second half of the eighth century, albeit they continued as archaic features in poetry to a certain extent. After the creation of a CA standard by the Arab grammarians, the language basically remained unchanged in its morphology and syntactic structures. Afterwards, as CA became the educated language of the Islamic world, syntactic features slightly deviating from the old models arose. Thus we may distinguish a pre-Classical period and a post-Classical period. Pre-Classical texts show, in spite of their transmission in a standardized shape, some archaic features; post-Classical texts show deviating syntactic features which gradually infiltrated the CA standard.

In its standardized form CA became the educated language of the Muslim elites and was also adopted by religious minorities, mainly Jews and Christians. Since the Arabic vernaculars very early had become widely different from the language of educated elites, CA gained the status of a scholarly and purely literary language even in Arabic-speaking regions. This linguistic situation, in which two different variations of the same language, a high one and a low one, are used side by side is called by Ferguson (1959) diglossia. The question of when this diglossia arose in the Arabic-speaking community is very controversial. The traditional Arab view states that it developed as late as the first Islamic century as a result of the Arab conquests, when non-Arabs began to speak Arabic. This view is also held by Nöldeke (1910), Fück (1950) and Blau (for the last time 1986). Others (Vollers 1906, Wehr 1952 or Diem 1973) have come to the conclusion that diglossia is an old phenomenon going back to pre-Islamic times. But we must note that the early Arab grammarian Sībawaih (d. 793 CE) claims that he took linguistic information immediately from native speakers of correct, i.e. Classical Arabic.

The training in CA grammar was for many centuries the domain of Muslim scholars. Jews and Christians, and many Muslims as well, did not always take a full share in this philological education. Their language, showing more or less deviations from CA, is often called Middle Arabic.

Modern Standard Arabic
As a language of poetry and scholarly literature, CA continues to the present day. In the nineteenth and twentieth centuries, new elites that emerged under the influence of Western civilization and power revitalized CA and thus formed a linguistic medium, usually called Modern Standard Arabic (MSA), appropriate for all subjects of modern life. Through modern communication media, MSA has a broad

effect on the public and is now the official language of all Arab countries including Somalia and, with Hebrew, Israel. It is also in wide use as a second language throughout the Muslim world, in particular among the religious representatives of Islam. MSA is first of all a written language. However, in formal situations such as academic education, political interviews etc., it gains increasing importance as a spoken language too. Since the speakers of MSA do not always observe the intricate rules of CA grammar and tend to give way to colloquial expressions, this sort of language is sometimes called Intermediate Arabic.

MSA differs from CA only in vocabulary and stylistic features. The morphology and the basic syntactic structures have remained untouched, but there are some innovations on the periphery and in sections not strictly regulated by the classical authorities. On the whole, MSA is not homogeneous; there are authors who write in a style very close to the classical models and others who try to create new stylistic patterns. Add to this, regional differences in the vocabulary depending upon the influence of the local dialects and the influences of foreign languages, such as French in North Africa or English in Egypt, Jordan and other countries.

Phonology

Phoneme Inventory

Consonants

b			t d	ṭ ḍ		k q		ʾ
					j			
	f	ð θ	s z	ṣ ð̣	š	x γ	ḥ ʿ	h
m			n					
			l					
			r					
w					y			

CA shares with Ethiopic and South Arabian the shift *p > f; in loanwords p is represented by f, if it comes from or through Aramaic, e.g. *ka:fu:run* 'camphor' < Malayan *kapur*, and mostly by b, if it comes from Persian, e.g. *ba:latun* 'flask' < Persian *piya:lah* 'cup'. Semitic *g is palatalized to j. The three Semitic sibilants preserved in Hebrew and Epigraphic South Arabian are reduced: *s and *š became CA s, whereas *ś became š (cf. Hebrew *ḥameš* CA *xamsun* 'five', Hebrew *ʿeśer* CA *ʿašrun* 'ten').

The transliteration given above reflects the modern pronounciation of CA according to the standard of the Qur'an readers. Its phonemic system probably corresponds to that of earlier periods with exception of ḍ (*ḍa:d*) which may have been pronounced as an emphatic lateral. The so-called emphatics are nowadays

articulated with velarization or pharyngealization, their articulation in earlier times may have been different.

Vowels

short	i		u		long	i:		u:
		a					a:	

Short *i* and *u* are distinct, but the number of minimal pairs is very small: *yaḥullu* 'he unties' : *yaḥillu* 'it is allowed'. Often *i* and *u* can alternate: *yastiru / yasturu* 'he covers'. The long vowels *i:* and *u:* can be interpreted as *uw*, *iy*, thus classed with the diphthongs *aw*, *ay*. This becomes evident in the case of vocalic suffixes: *ʾal-waːdiː* : *ʾal-waːdiyaːni* 'the wadi : the two wadis', *yadʿuː* : *yadʿuwa* 'he calls' (ind. : subj.). The combinations **iw*, **uy* do not occur; where they should for morphological reasons they are changed to *iy* or *uw*: **miwzaːnun* (pattern *mifʿaːl* to the root *w-z-n*) > *miːzaːnun* 'balance', **buyḍun* (pattern *fuʿl* to the root *b-y-ḍ*) > *biːḍun* 'white' (pl.).

Syllable Structure
CA has two types of syllable, open CV and closed CVC or CV:. Therefore syllables of the form CVCC or CV:C are not permitted. There is one exception; in geminate verbs geminated consonants can occur after CV:, e.g. *maːssun* 'touching'. Word forms beginning with CC must add a prosthetic vowel when they come after a consonant or at the beginning of an utterance (in this case preceded by a glottal stop): **ktub* > *#ʾuktub* 'write!', **qraʾ* > *#ʾiqraʾ* 'read!', but *#ʾuktub wa-qraʾ* 'write and read!'. *ʾa-* of the definite article *ʾal-* is dropped within an utterance; after a consonant an auxiliary vowel takes its place: *lam ʾaqraʾ* + *ʾal-kitaːba* > *lam ʾaqraʾ-i l-kitaːba* 'I did not read the book'.

Shortening of CV:C to CVC is frequent in the last syllable of the inflectional base: *quːmuː* 'stand up!' (pl. m.), but *qum* (sg. m.) 'stand up!'; *ʾal-waːdiː* 'the wadi', but **waːdiː+n* > *waːdin* 'a wadi'; *ʾaṣ-ṣadaː* 'the echo', but **ṣadaː+n* > *ṣadan* 'an echo'. Otherwise shortening of v:C is avoided by means of a paragogic vowel: *hayhaːt* > *hayhaːti*, *hayhaːta*, *hayhaːtu* 'but oh!', **saːriqaː+n* > *saːriqaːni* 'two thieves', **saːriquːn* > *saːriquːna* 'thieves' (the shortened forms **saːriqan*, **saːriqun* would be identical with the nom. and acc. sg.). Shortening of CVCC is rare: *ẓalla* 'he passed the day', but **ẓall+tu* > *ẓaltu* 'I passed the day'; *laysa* 'he is not', but **lays+tu* > *lastu* 'I am not'. Word-final VCC, where CC is geminate, is protected by adding a paragogic vowel: *jurruː* 'draw!' (pl. m.), but **jurr* > *jurra*, *jurru*, *jurri* 'draw!' (sg. m.).

Stress in the modern pronounciation of CA is conditioned by the syllabic sequence. Most speakers observe the following stress rules: (1) stress does not fall on a final syllable; (2) stress falls on the penultimate syllable, if closed, otherwise on the antepenult: *katábahuː* 'he wrote it', *kátabuː* 'they (m.) wrote', *katábna* 'they (f.) wrote'.

Morphophonemics

CA derivational and inflectional patterns are described in terms of three or some-
times four "sound," i.e. stable consonants which appear unchanged in all deriva-
tives. Forms derived from "weak" roots, however, fail to have a complete set of
root consonants. About the pecularities of the weak root classes see p. 204. In this
chapter, morphological patterns are demonstrated, as usual, by the root *f-ʿ-l* for
three-consonantal, and *f-ʿ-l-l* for four-consonantal roots.

Pausal Forms

At the end of an utterance the last or the two last phonetic segments of the word
fall silent and are dropped. Thus all final short vowels, but also the indefinite case
endings *-un, -in* disappear: *kataba* 'he wrote' > *katab#, kita:bun, kita:bin* 'book'
> *kita:b#*. Long vowels are shortened: *katabu:* 'they wrote' > *katabu#, kita:bi:*
'my book' > *kita:bi#*, but *-a:* becomes sometimes *-ah: ma:* 'what' > *mah#*. In the
case of the accusative ending *-an* as well as in cases of final *-an, -in* of nouns de-
rived from roots with *w* or *y* as third radical, only *-n* is dropped: *kita:ban* >
kita:ba#, ṣadan 'echo' > *ṣada#, wa:din* 'wadi' > *wa:di#*. The pausal form of the
femine ending is *-ah#*, equally for *-atu(n), -ati(n), -ata(n)*. Final *-CC* is shortened
to *-C* (in this case the otherwise required paragogic vowel is superfluous):
murr(a) 'pass!' > *mur#*.

Nominal Morphology

Derivation

Most nouns are derived from verbal roots, but verbal roots also develop from
nouns. In the case of two-consonantal nouns, the root is enlarged to a three-
consonantal root by adding a weak radical or *h: damun* 'blood' > *damiya* 'to
bleed', *maʾun* 'water' > *ma:ha, yamu:hu* 'to abound in water'. There are roots de-
rived from loanwords: *qa:labun* 'mold' (< Greek καλοπόδιον) > *qalaba* 'to turn
about' and others which owe their origin to internal reorganization: *ʾiša:ratun* 'in-
dication' (*š-w-r*) > *ʾaššara* 'to indicate' (*ʾ-š-r*).

Every derived noun is modeled on a certain pattern consisting of a discontinu-
ous morpheme which determines the distribution of the vowels and affixes across
the consonantal root. As derivation affixes act:

suffixes: *-a:n, -iyy* (for adjectives of relation and origin), *-u:t* (from Aramaic)
prefixes: *ma-, mi-, mu-; ta-, ti-, tu-; ʾa-, ʾi-, ʾu-*

The prefixes *mi-, mu-* are variants of *ma-*. The vowel depends upon the following
vowel which is regularly elided: *mafʿu:l* < **ma-faʿu:l* (passive participle), *mifʿa:l*
< **ma-fiʿa:l, mufʿul* < **ma-fuʿul*.

CA has an immense number of nominal patterns in part because of the integra-
tion of several dialects into the language of pre- and early Islamic poetry. There

are variants such as *faᶜl* / *faᶜal* / *faᶜil*, *fuᶜl* / *fuᶜul*, *fiᶜla:n* / *fuᶜla:n*, *faᶜa:l* / *fiᶜa:l* / *fuᶜa:l*. Sometimes a single lexeme is realized in different patterns as *xariᶜun*, *xari:ᶜun*, *xaru:ᶜun* 'soft', but in many other cases the same patterns are used to distinguish different lexemes. Borrowings from Aramaic like *xa:tamun* 'seal ring' and *ra:wu:qun* 'filter' introduced the patterns *fa:ᶜal* and *fa:ᶜu:l* which then became productive in Arabic.

The clear distinction between patterns specific for adjectives and those specific for substantives, as existing in Akkadian (Kienast 1990), is given up in CA. Although the old adjective patterns *faᶜal*, *faᶜil*, *faᶜul* still exist, most of them are replaced by *faᶜi:l* (corresponding to the passive participle *qti:l* in Aramaic). Nearly every nominal pattern is used as substantive and adjective as well:

faᶜl	*sahlun*	'easy'	*ḥarbun*	'war'
fuᶜl	*ṣulbun*	'hard'	*ṣulḥun*	'peace'
fiᶜl	*rixwun*	'loose'	*silmun*	'peace'
faᶜal	*ḥasanun*	'good'	*ṭalabun*	'claim'
faᶜil	*ḥaδirun*	'cautious'	*kabidun*	'liver'
fuᶜul	*junubun*	'impure'	*ᶜunuqun*	'neck'
fuᶜa:l	*ᶜuja:bun*	'marvelous'	*nuḍa:run*	'pure gold'
faᶜi:l	*qali:lun*	'little'	*qali:bun*	'well'
faᶜu:l	*ʾamu:nun*	'trusty'	*ᶜamu:dun*	'pillar'

Every adjective may be employed as a substantive: *baṭalun* 'brave' and 'hero'. Conversely, there are substantives that serve as adjectives: *θiqatun* 'trust, confidence' and 'trustworthy'. Some adjectives which do not agree in gender with the noun they qualify, for instance those which are modeled after *faᶜu:l*, have originally been substantives.

Notwithstanding the semantic ambiguity of many derivational patterns, there also are patterns clearly associated with certain semantic classes:

faᶜl   makes verbal nouns of stem I: *faᶜala*: *darsun* 'learning' to *darasa* 'he learned';

faᶜal   makes verbal nouns of stem I: *faᶜila*: *saharun* 'sleeplessness' to *sahira* 'he was sleepless';

fuᶜayl   is the pattern of diminutives: *kulaybun* to *kalbun* 'dog';

faᶜa:lat makes abstract nouns of quality: *basa:ṭatun* 'simplicity';

fuᶜu:lat makes abstract nouns: *buru:datun* 'coldness', *ruju:latun* 'masculinity';

faᶜᶜa:l makes intensive adjectives: *bakka:ʾun* 'weeping much', but also nouns of profession: *xayya:ṭun* 'tailor' (in the latter function it is borrowed from Aramaic);

ʾafᶜal   makes adjectives of eye-catching qualities such as colors and defects (see Elative, p. 197);

maf͑al,	are patterns for nouns of place and time: *mašrabun* 'drinking place',
maf͑il	*maw͑idun* 'time and place of an appointment', with suffixed *-at: maɣa:ratun* 'cave';
mif͑al,	make nouns of instruments: *mibradun* 'file', *miknasatun* 'broom',
mif͑a:l	*mifta:hun* 'key';
taf͑a:l,	occur as verbal nouns of the basic stem: *takra:run* 'repetition'; derived
tif͑a:l	from roots with *w* as first radical, **tiw-* must be changed to **tu:-* which is then shortened to *tu-*: **tiwra:θun > turaθ:un* 'legacy'.

In some cases a certain noun was likely to be the nucleus that attracted others of similar meaning to its pattern:

fi͑l	for paired things such as *qismun* 'part', *šibhun* 'something similar to another thing';
fi͑a:l	for tools as *hiza:mun* 'belt', *͑ina:nun* "bridle', *sila:hun* 'weapon';
fu͑a:l	for diseases as *su͑a:lun* 'cough', *suda:͑un* 'headache';
fu͑a:l,	for names of plants and animals such as *͑uqa:bun* 'eagle', *ɣura:bun*
fu͑͑a:l	'crow', *tuffa:hun* 'apple';
ʾuf͑u:l-at	for literary genres such as *ʾuhdu:θatun* 'talk', *ʾuɣni:yatun* 'song'.

Patterns with gemination of the second as *fu͑͑a:l*, *fu͑͑u:l*, *fi͑͑i:l*, but also *mif͑a:l*, *mif͑i:l* and others express an intensive meaning: *kurra:mun* 'very noble', *quddu:sun* 'most holy', *širri:run* 'very bad', *mit͑a:mun* 'eating much', *mi͑ti:run* 'using perfumes permanently'.

Nominal Inflection
Nouns are marked with reference to definiteness/indefiniteness, case, gender and number. Adjectives normally distinguish the same categories in agreement with the noun they qualify. Quantifying nouns do not distinguish gender and number.

Gender
Gender distinction is a grammatical category, but feminine markers include natural gender. Natural gender is sometimes lexically differentiated: *ʾabun* 'father' : *ʾummun* 'mother'; *hima:run* 'ass' : *ʾata:nun* 'she-ass'. In good CA some specific female qualities are not marked by the feminine ending *-at*: *ha:milun* 'pregnant (woman)', *͑a:qirun* 'barren (woman)'. Besides, there are unmarked nouns that are grammatically feminine: *šamsun* 'sun', *na:run* 'fire' *yadun* 'hand', *͑aynun* 'eye' etc. On the other hand nouns denoting outstanding (male) persons are marked by the feminine ending: *xali:fatun* 'caliph', *͑alla:matun* 'most erudite scholar'. In the majority of cases, however, nouns denoting females are marked by *-at*: *šayxun* 'old person' : *šayxatun* 'old woman'. An archaic form *-t* is preserved in *ʾuxtun* 'sister', *bintun* (along with #*ʾibnatun*) 'daughter', *kilta:* 'both', *θinta:ni* 'two'.
     The most frequent of the three feminine markers is *-at*; *-a:* and *-a:ʾ* are mainly

reserved for adjectives. The basic function of *-at* is to denote the particular, distinguishing it from the general; it marks the female in contrast to the generic term which includes the male gender, the outstanding person in contrast to the common one, and the singulative in contrast to the collective: *šajaratun* 'a single tree' : *šajarun* 'tree, trees'; *baqaratun* 'a cow' : *baqarun* 'cows, cattle'; *darbun* 'beating' : *darbatun* 'a single beat'. Substantives derived from adjectives are sometimes marked by *-at*: *hasanun* 'good' : *hasanatun* 'good deed', in connection with the so-called *nisbe* ending *-iyy* with the meaning of an abstract: *su:fiyyun* 'sufi' : *su:fiyyatun* 'sufism'.

Number
CA distinguishes singular, plural and dual. The singular is unmarked except for singulatives: *hadi:dun* 'iron' : *hadi:datun* 'a piece of iron', *jinnun* 'demons' : *jinniyyun* 'demonic, a demon'. Dual and "sound" plural have only two cases, the nominative, and the oblique for genitive and accusative.

The dual marker is *-a:* followed by *n* with a paragogic vowel *i*, e.g. *malik-a:ni* 'two kings', *malikat-a:ni* 'two queens'. In the oblique case, the plural ending *-i:n* is affixed to *-a:* (**-a:-i:n > -ayni* with final *i* as a paragogic vowel): *malik-ayni*, *malikata-ayni*.

There are two kinds of plural formation, the sound plural marked by suffixes and the "broken" plural marked by internal vocalic change. For marking the sound plural, the last vowel of the inflectional base is lengthened; a final paragogic vowel is added to preserve the lengthening:

Masculine	Sg. nom.	*-un*	Pl. nom.	*-u:na*
	Sg. gen.	*-in*	Pl. obl.	*-i:na*
Feminine	Sg. nom.	*-at-un*	Pl. nom.	*-a:t-un*
	Sg. gen.	*-at-in*	Pl. obl.	*-a:t-in*

The broken plural forms are lexicalized. One noun may be accompanied by several plural forms. The large number of plural patterns can be divided into three groups: (1) patterns derived by lengthening; (2) patterns occuring as singular as well; (3) patterns exclusively used for plural.

1   In this group singular patterns *fa'l-at*, *fi'l-at*, *fu'l-at* are in plural lengthened to *fa'al*, *fi'al*, *fu'al* (the plural marker *-a:t* is normally added, but may be absent on *fi'al* and *fu'al*): *lamhatun* 'a glance' : *lamaha:tun*, *hikmatun* 'wisdom' : *hikamun*, *rukbatun* 'knee' : *rukabun*, *rukaba:tun*. Singular patterns containing four consonants or a long vowel, mostly in combination with the feminine ending, make the plural by changing the vowel sequence of the singular into *a-a:-i/i:* (the quantity of *i/i:* corresponds with the last vowel of the singular pattern):

ʾiṣbaʿun	'finger'	Pl. *ʾaṣa:biʿu*
fa:risun	'horseman'	Pl. *fawa:risu*
manzilun	'station'	Pl. *mana:zilu*
mi:za:nun	'balance'	Pl. *mawa:zi:nu*

2   The second group originates in abstract nouns that were interpreted as collectives. The most frequent patterns are: *fuʿul, fuʿu:l, fiʿa:l, faʿi:l, fiʿla:n, fuʿla:n, faʿalat, fiʿlat.*

fuʿul	*ṣaḥi:fatun*	Pl. *ṣuḥufun*	'leaf'
fiʿa:l	*rajulun*	Pl. *rija:lun*	'man'
fuʿu:l	*malikun*	Pl. *mulu:kun*	'king'
fiʿla:n	*ɣaza:lun*	Pl. *ɣizla:nun*	'gazelle'

3   From the patterns mentioned under (2) plural patterns have been derived which were used for a multiplicity of individuals. Most of them show the prefix *ʾa-: ʾafʿul, ʾafʿa:l, ʾafʿilat, ʾafʿila:ʾ*, e.g. *ṣa:ḥibun* 'companion' : *ṣaḥbun* 'companionship, a group of companions' : *ʾaṣḥa:bun* 'companions (as individuals)'.
With this group one may also class patterns like *fuʿʿa:l* and *fuʿala:ʾ* which are specialized as plurals of persons: *ka:firun*, pl. *kuffa:r* 'unbelievers'; *faqi:run*, pl. *fuqara:ʾu* 'poor men'.

Definiteness/Indefiniteness: The Three States of the Noun
Definiteness is normally marked by the definite article *ʾal-* which assimilates before apical consonants, the so-called "sun" letters (*t, d, θ, δ, s, z, ṣ, ḍ, ḏ̣, š, n, l, r*), all others are called "moon" letters (*ʾaš-šamsu* 'the sun', *ʾal-qamaru* 'the moon'). *ʾ* and the initial vowel is elided within an utterance (see p. 190). The indefinite noun is marked by *-n: kita:bun* 'a book'. Nouns lack *-n* as head of a genitive construction and when personal pronouns are suffixed: *kita:bu-hu:* 'his book'. The three possible forms of a noun are called 'states': definite state (*ʾal-kita:bu*), indefinite state (*kita:bun*), construct state (*kita:bu* 'book of').
    A number of nouns, called diptotic, and the vocative (see p. 203) have no *-n* in the indefinite state: *ṣaḥra:ʾu* 'a desert' : *ʾaṣ-ṣaḥra:ʾu* 'the desert'. Conversely, masculine dual and plural forms have in both states, *-ni, -na*, respectively: *muʾmina:ni, ʾal-muʾmina:ni* '(the) two believers', *muʾminu:na, ʾal-muʾminu:na* '(the) believers'.

Case Inflection
The case system in singular consists of nominative marked by *-u*, genitive marked by *-i*, and accusative marked by *-a*. In the sound plural and dual there are only two cases, the nominative and an oblique case. The broken plural forms are inflected like the singular. Diptote nouns, both singular and plural patterns, have in the indefinite state only one form for genitive and accusative marked by *-a*.

Table 11.1   Triptotic inflection

			Definite state	Indefinite state	Construct state
Sg.	m.	nom.	ˀal-muˀminu 'the believer'	muˀminun	muˀminu
		gen.	ˀal-muˀmini	muˀminin	muˀmini
		acc.	ˀal-muˀmina	muˀminan	muˀmina
Du.	m.	nom.	ˀal-muˀmina:ni	muˀmina:ni	muˀmina:
		obl.	ˀal-muˀminayni	muˀminayni	muˀminay
Pl.	m.	nom.	ˀal-muˀminu:na	muˀminu:na	muˀminu:
		obl.	ˀal-muˀmini:na	muˀmini:na	muˀmini:
Sg.	f.	nom.	ˀal-muˀminatu	muˀminatun	muˀminatu
		gen.	ˀal-muˀminati	muˀminatin	muˀminati
		acc.	ˀal-muˀminata	muˀminatan	muˀminata
Du.	f.	nom.	ˀal-muˀminata:ni	muˀminata:ni	muˀminata:
		obl.	ˀal-muˀminatayni	muˀminatayni	muˀminatay
Pl.	f.	nom.	ˀal-muˀmina:tu	muˀmina:un	muˀmina:tu
		obl.	ˀal-muˀmina:ti	muˀmina:tin	muˀmina:ti

Diptotic Inflection

	Definite state	Indefinite state	Construct state
Nom.	ˀal-ˀaswadu 'the black'	ˀaswadu	ˀaswadu
Gen.	ˀal-ˀaswadi	ˀaswada	ˀaswadi
Acc.	ˀal-ˀaswada	ˀaswada	ˀaswada

In a few nouns derived from bi- and monoconsonantal roots, the case marker of the construct state is a long vowel which may be understood as compensation for the incompleteness of the root:

	Definite state		Indefinite state		Construct state	
Nom.	ˀal-ˀabu 'the father'	ˀal-famu 'the mouth'	ˀabun	famun	ˀabu:	fu:
Gen.	ˀal-ˀabi	ˀal-fami	ˀabin	famin	ˀabi:	fi:
Acc.	ˀal-ˀaba	ˀal-fama	ˀaban	faman	ˀaba:	fa:

The diptotic inflection includes (1) the elative *ˀafˤalu* (see p. 197), (2) two adjective patterns, *ˀafˤalu*, f. *faˤla:ˀu* and *faˤla:nu*, f. *faˤla:* and some other patterns ending in *-a:ˀu*, (3) the plural patterns *faˤa:lilu/faˤa:li:lu*, (4) feminine proper names and place names such as *Fa:ṭimatu*, *Zaynabu* and *Makkatu* (Mecca), *Miṣru* (Egypt) and also some masculine proper names such as *ˤUmaru* (Omar).

Quantifying Nouns

Common Pecularities
CA possesses a noun class distinct from substantive and adjective. It includes the elative *ʾafʿalu*, numerals, *kullun* 'whole', the interrogative *ʾayyun* 'which'. Basically these nouns occur in the construct state quantifying a noun following in the genitive:

kullun	'all'	*kullu rajulin*	'every man'
xamsun	'five'	*xamsu sini:na*	'five years'
ʾayyun	'which one?'	*ʾayyu rajulin*	'which man?'
kullu r-rijja:li	'all the men'	*kullu-hum*	'all of them'
		xamsu-hunna	'those five (f.)'
ʾayyu r-rija:li	'which of the men?'	*ʾayyu-hum*	'which of them?'

These nouns do not occur in definite attributive position, but do occur as appositives: *ʾar-rija:lu kullu-hum* 'all the men' (lit. the men – all of them), *ʾar-rija:lu l-xamsatu* 'the five men'. In post-Classical Arabic they were partially accommodated to the other noun classes. As a subclass one may consider *ɣayru-* 'anybody/anything different from …' and *miθlu-* 'somebody/something like …': *miθlu ha:ða: l-qurʾa:ni* 'something like this Qurʾan'. *ɣayru* is also a negative of adjectives: *ʾal-qurʾa:nu ɣayru l-maxlu:qi* 'the uncreated Qurʾan'.

Elative
The elative has the diptotic pattern *ʾafʿalu* in both genders and all numbers. It is directly derived from the three-consonantal root and may refer to different nominal patterns: *ʾakramu* 'extremely noble' in relation to *kari:mun* 'noble', *ʾaḥaqqu* 'extremely true' in relation to *ḥaqqun* 'truth' or 'extremely worthy' in relation to *mustaḥiqqun* 'worthy'. Depending on the context, the elative expresses a unique high degree of quality, the comparative or the superlative: *ʾalla:hu ʾakbaru* 'God is of unique greatness', *huwa ʾaṭwalu min naxlatin* 'he is taller than a date palm'. The genitive which follows the elative is either indefinite, then explicative, or definite, then partitive:

ʾaʿla: jabalin	'the highest mountain'
ʾaʿla: l-jabali	'the highest part of the mountain'
ʾaʿla: l-jiba:li	'the highest (one or ones) of the mountains'

From *ʾafʿalu* two kinds of nouns developed which turned to adjectives:

1   Elatives of relative contrast which take a feminine *fuʿla:*, e.g. *ʾal-ʾaxu: l-ʾakbaru* 'the elder brother', *ʾal-ʾuxtu l-kubra:* 'the elder sister', *ʾal-ʾaxu: l-ʾaṣɣaru* 'the younger brother', *ʾal-ʾuxtu ṣ-ṣuɣra:* "the younger sister', and

also *'awwalu*, f. *'u:la:* 'first', *'a:xaru*, f. *'uxra:* 'last'.

2   Adjectives of eye-catching qualities which take a feminine *faʕla:'u* and a plural *fuʕlun: 'azraqu*, f. *zarqa:'u*, pl. *zurqun* 'blue', *'aṭrašu*, f. *ṭarša:'u*, pl. *ṭuršun* 'deaf'.

Two nouns, *xayrun* 'good, better, best' and *šarrun* 'bad, worse, worst' are employed like elatives without taking the pattern *'afʕalu*. In substandard texts they often appear as *'axyaru, 'ašarru*.

The formula of admiration *ma: 'afʕala* with a following accusative or suffixed pronoun: *ma: 'aḥsana s-sama:'a* 'what a beautiful firmament there is!', *ma: 'aḥla:-ha:* 'how sweet she is!', originates in the elative. If derived from hollow roots, elative and formula of admiration show a consonantal second radical: *'aṭwalu* 'extremely long', *ma: 'aṭwala ha:ða:* 'how long this is!'.

Numerals
Like other Semitic languages CA has a double set of cardinal numerals which are used in gender opposite to the noun denoting the thing counted. This noun follows after the numbers from 3 to 10 in the genitive plural: *xamsatu 'ayya:min* 'five days' (*yawmun* sg. m.), *xamsu laya:lin* 'five nights' (*laylatun* sg. f.), after the numbers from 11 to 19 in the accusative singular: *xamsata ʕašara yawman* 'fifteen days', *xamsa ʕašrata laylatin* 'fifteen nights'. There is no distinction of gender in the tens, hundreds, and thousands. After the hundreds and thousands nouns follow in genitive singular: *mi'atu laylatin* '100 nights', *mi'ata: laylatin* '200 nights', *'alfu laylatin* '1,000 nights'. The tens are marked by the plural suffix *-u:na*; nouns follow in the accusative singular, because the genitive would require the construct state and abolish the characteristic of the marker *-u:na: xamsu:na laylatan* 'fifty nights' (not *xamsu: laylatin*).

Numerals have case inflection like other nouns except the numbers from 11 to 19:

1	*wa:ḥidun*, f. *wa:ḥidatun*
2	(*'i)θna:ni*, f. (*'i)θnata:ni, θinta:ni* (du.)
3	*θala:θatun, θala:θun*
4	*'arbaʕatun, 'arbaʕun*
5	*xamsatun, xamsun*
6	*sittatun, sittun*
7	*sabʕatun, sabʕun*
8	*θama:niyatun, θama:nin*
9	*tisʕatun, tisʕun*
10	*ʕašaratun, ʕašrun*
11	*'aḥada ʕašara, 'iḥda: ʕašrata*
12	(*'i)θna: ʕašara, ('i)θnata: ʕašrata*
13	*θala:θata ʕašara, θala:θa ʕašrata*
14	*'arbaʕata ʕašara, 'arbaʕa ʕašrata* etc.

20 *ʿišru:na*, 30 *θala:θu:na*, 40 *ʾarbaʿu:na*, 50 *xamsu:na*, 60 *sittu:na*, 70 *sabʿu:na*, 80 *θama:nu:na*, 90 *tisʿu:na*.

100 *miʾatun*, 200 *miʾata:ni* (du.), 300 *θala:θu miʾatin*, 400 *ʾarbaʿu miʾatin* etc.

1,000 *ʾalfun*, 2,000 *ʾalfa:ni* (du.), 3,000 *θala:θatu ʾa:la:fin* etc.

wa:ḥidun and *(ʾi)θna:ni* are adjectives: *ʾaxun wa:ḥidun* 'one brother', *ʾuxtun wa:ḥidatun* 'one sister'. Both are used in counting: *wa:ḥid#*, *ʾiθna:n#*, *θala:θah#*, *ʾarbaʿah#*, *xamsah#* etc. In compound numbers from 21 to 100 the units precede the tens. All numerals are connected with *wa-* 'and': *sabʿu-miʾatin wa-xamsatu wa-xamsu:na* '755'.

The ordinal numerals from 2 to 10 are derived with the pattern of the active participle *fa:ʿil*: *ʾawwalu* 'first' (see Elative, p. 197), *θa:nin*, f. *θa:niyatun* 'second', *θa:liθun*, *ra:biʿun*, *xa:misun*, *sa:disun*, *sa:biʿun*, *θa:minun*, *ta:siʿun*, *ʿa:širun*. From 11 to 19 they are not inflected: *ḥa:diya ʿašara*, f. *ḥa:diyata ʿašrata* 'eleventh', *θa:niya ʿašara*, f. *θa:niyata ʿašrata* 'the twelfth'. The tens have no special form for ordinals: *ʾal-laylatu l-ʿišru:na* 'the twentieth night'.

Prepositions

There are two kinds of prepositions, old prepositions inherited from Common Semitic and others derived from nouns. Both govern the genitive. The old prepositions are: *bi-* 'on, by means of', *li-* 'for, to' (with a variant *la-* connected with suffixed personal pronouns), *fi:* 'in' (maybe cognate to *fu:* 'mouth'), *ʾila:* 'toward', *ʿala:* 'upon', *lada:* (rarely *ladun*) 'at, near', *maʿa* 'together with' (Hebrew *ʿim*, Aramaic *ʿam*), *ʿan* 'off', *min* 'of, from', *ka-* 'like'. In connection with suffixed personal pronouns, *ʾila:*, *ʿala:*, *lada:* 'get' *ʾilay-*, *ʿalay-*, *laday-*, e.g. *ʾilay-ya* 'to me', *ʿalay-kum* 'upon you', *laday-hi* 'at him'. *ka-* and *min* often imply a substantival meaning: *ka-* 'someone like, something like', *min* 'some of, a part of', e.g. *ka-l-ʾasadi* 'someone like a lion', *min-a l-ma:ʾi* 'some water'.

Every noun of place or time which is employed in the adverbial accusative, may serve as a preposition too: *xa:rijan* 'outside', *xa:rija l-madi:nati* 'outside the town'. CA has had secondary prepositions like these from its beginning, such as: *bayna* 'between', *ʿinda* 'by, in the opinion of', *taḥta* 'under', *du:na* 'below, without', *baʿda* 'after', *qabla* 'before', etc. Their number has increased with time. Some of the prepositions can be marked by *-u* which is assumed to be the remnant of an old local case: *ʿalu* 'above', *taḥtu* 'below', *baʿdu* 'later', *qablu* 'before'. This marker is also found with the relative *ḥayθu* 'where'.

Temporal adverbs of this kind are used as prepositions and conjunctions as well: *yawma ða:ka* 'on the day of that', *yawma qutila ʿUθma:nu* 'on the day when Othman was killed'. The same is found with *ḥatta:* 'until, up to' (< *ʿad-kay*) and *li-* 'to': *ḥatta: maṭlaʿi l-fajri* 'till the break of day', *ḥatta: ṭalaʿat-i š-šamsu* 'until the sun rose', *tub li-yaɣfira la-ka lla:hu* 'repent, that God may forgive thee'.

Pronouns and Particles

Demonstrative Pronouns

'This' and 'That'
The simple demonstratives are seldom found. Referring to the near, the deictic particle *ha:-* is normally added, referring to the far, the suffixes *-ka* or more often *-lika* are attached.

Sg. m.	*ha:δa:* 'this'	f. *ha:δihi:*		*δa:ka, δa:lika* 'that'	f. *tilka*
Du. m. nom.	*ha:δa:ni*	f. *ha:ta:ni*		*δa:nika*		*ta:nika*
obl.	*ha:δayni*	*ha:tayni*		*δaynika*		*taynika*
Pl. c.	*ha:'ula:'i*			*'ula:'ika*	

The far demonstratives occur sporadically with *ha:-* prefix too: *ha:δa:ka, ha:δi:ka, ha:'ula:'ika.*

Demonstrative pronouns include the elements *δa:, δi:* for masculine and feminine, *ta:, ti:* for feminine and *'ula:* for plural. Gender distinction is expressed either by the contrast of *a:* and *i:* or the contrast of *δ* and *t*: sg. m. *δa:*, sg. f. *δi:* or sg. m. *δa:* sg. f. *ta:, ti:* (cf. The Relative, p. 201). The CA demonstratives show pausal forms which penetrated into the regular forms used in junction: *δih# > δihi, δihi:, 'ula:'# > 'ula:'i.* In *δihi:* the long *i:* may be understood on the analogy of the personal pronoun sg. f. *-hi:.*

The reference to the far is marked by the suffixes *-ka* 'you' or *-lika* 'for you': sg. m. *δa:ka, δa:lika* 'that', f. *δi:ka, ta:lika, *ti:lika > tilka,* pl. *'ula:'ika, 'ula:lika.* Other forms of the pronoun of the 2nd person such as *δa:-ki, δa:-kum* or *δa:-liku-ma:, δa:-likunna* are attested in pre-Classical texts.

Combined with a noun the demonstrative pronouns precede the definite noun: *ha:δa: r-rajulu* 'this man', *ha:δihi: l-mar'atu* 'this woman', *'ula:'ika l-mu'minu:na* 'those believers', but they follow a nominal phrase which is not marked by the definite article: *kita:bi: ha:δa:* 'this book of mine', *Fa:timatu ha:δihi:* 'this Fatimah'. When they are used as presentatives (*ha:δihi: Fa:timatu qad 'atat* 'here is Fatimah, having come'), the personal pronouns can be inserted after *ha:-: ha:-'ana:-δa:, ha:-'anta-δa:, ha:-'anti-δi:, ha:-'antum-'ula:'i* 'here I am, here thou art, here you are'.

With a following genitive the demonstrative pronoun means 'this one of ...' and takes nominal inflection: *δu:* is taken as nominative, *δi:* as genitive, *δa:* as accusative: *δu: ma:lin* 'this one of wealth, a wealthy man'. The feminine is enlarged by *-(a)t, δa:tu*, pl. *δawa:tu*, and the masculine plural takes the plural marker *-u:*, nom. *'ulu:*, obl. *'uli:*.

The Relative
CA has attributive clauses which are equivalent to the relative clauses of Indo-European languages. As with other attributes they must be in agreement in defi-

niteness/indefiniteness with the head noun. Indefiniteness is unmarked; definiteness is marked by *ʾal-laδi:*. The relative is not a part of the attributive clause, but a connecting link governed by the head noun. It agrees in gender and number with the head noun.

> *kita:bun qaraʾtu-hu:*   'a book I read it', i.e. 'a book which I read'
> *ʾal-kita:bu l-laδi: qaraʾtu-hu:*'the book that I read it', i.e. 'the book which I read.'

It is also used as a head noun of the relative clause in the sense of 'the one who' or 'that which': *ʾayyuha: l-laδi:na ʾa:manu:* 'O you who believe'. The relative is composed of the definite article, the deictic *la*, and a demonstrative pronoun:

Sg. m.	*ʾal-laδi:*	f. *ʾal-lati:*
Du. m. nom.	*ʾal-laδa:ni*	f. *ʾal-lata:ni*
obl.	*ʾal-laδayni*	*ʾal-latayni*
Pl. m.	*ʾal-laδi:na*	f. *ʾal-la:ti:*, *ʾal-lawa:ti*

In the dialect of Tayyi', the relative particle was *δu:* invariable in gender and number: *biʾri: δu: ḥafartu* 'my well which I dug'.

Demonstrative Adverbials and Particles
Local demonstratives are *huna:*, *ha:huna:* 'here', *huna:ka*, *huna:lika* 'there', *θamma* 'there' (corresponding to Hebrew *ša:m*), and in pre-Classical texts *hanna:*, *hinna:* 'there'. Modal demonstratives are formed with the preposition *ka-* 'like': *ka-δa:*, *ha:-ka-δa:* 'thus, so' and *kayta wa-kayta*, *kayti wa-kayti* 'so and so' which comes from **ka-ta:*, **ka-ti:* and is transformed to *kayta*, *kayti* on the analogy of *kayfa* 'how'.

Temporal demonstratives show an element *ʾiδin: yawma-ʾiδin* 'that day' (final -*in* seems to be a pausal feature). It is also found in the particles: *ʾiδ*, *ʾiδa:* 'at that moment, then' (both are used as conjunctions too), and in *ʾiδan* 'hence', *ʾiδ-δa:ka* 'at that time'.

The particle *ʾinna*, etymologically cognate to Hebrew *hen, hinne:* 'behold', emphasizes that the speaker's utterance is true. It comes at the head of the sentence and is followed by a noun in the accusative: *ʾinna lla:ha ʿala: kulli šayʾin qadi:run* 'indeed, God is powerful over everything'. The shortened form *ʾin* comes with a similar function, but mostly it serves as a conjunction of the conditioning clause.

Interrogatives
Interrogative pronouns do not distinguish gender and number: *man* 'who?', *ma:* (pausal form *mah#*) 'what?', *ʾayyun* 'which?' (see p. 197). To *man* and *ma:* the demonstrative *δa:*, functioning as a presentative, may be added: *ma:-δa taṣnaʿu* 'what you are doing here?'. In combination with prepositions *ma:* is shortened to *ma* or even *m*: *li-ma* (sometimes *lim*) 'why?', *ʿala:-ma* 'what about?' , **ka-ma: >*

kam 'how much?'. Adverbial interrogatives are *ʾayna* 'where?', *ʾanna:* 'where ... from?', *kayfa* (< *ka-ʾayyin fa-*)'how?', *mata:* 'when?', *ʾayya:na* (< *ʾayya-ʾa:na*) 'what time?'. In post-Classical texts one finds *ʾayšin* (< *ʾayyu-šayʾin*) 'what?'.

Interrogatives serve as relatives: *ya: man la: yamu:tu* 'O the one who does not die (God)'. As a suffixed particle *ma:* marks indefiniteness: *ʾamrun-ma:* 'a certain affair', in particular, combined with relatives: *mahma:* (< *ma:-ma:*) 'whatever', *ʾayna-ma:* 'wherever', *mata:-ma:* 'whenever'. From rhetorical questions there developed the use of *ma:* as a negative (see Nominal Sentences, pp. 212 and 214). Interrogative sentences are marked by *ʾa-* or *hal* (< *ha-la* [?], see Questions, p. 213).

Personal Pronouns

Independent Pronouns

	Singular		Dual	Plural			
1	*ʾana:*			*naḥnu*			
2m.	*ʾanta*	f. *ʾanti*	*ʾantuma:*	m.	*ʾantum*	f.	*ʾantunna*
3m.	*huwa*	f. *hiya*	*huma:*	m.	*hum*	f.	*hunna*

Dual forms are derived from plural by means of the dual marker *-a:*. The feminine plural is marked by *-na* which is also found as a feminine plural marker in the verbal inflection: *ʾantunna* < *antum-na, hunna* < *hum-na*. The plural marker *-u:*, despite its redundance, is sometimes added to the plural forms: *ʾantum-u:, hum-u:*.

Independent personal pronouns occur as subject of a nominal sentence and in order to emphasize a suffixed pronoun: *ʾantuma: kari:ma:ni* 'both of you are generous', *naṣi̇b-i: ʾana:* 'my (and not your) share'.

Suffixed Personal Pronouns

	Singular		Dual	Plural		
1	*-i:, -ya, -ni:*			*-na:*		
2m.	*-ka*	f. *-ki*	*-kuma:*	m. *-kum*	f. *-kunna*	
3m.	*-hu:, -hi:*	f. *-ha:*	*-huma:*	m. *-hum*	f. *-hunna*	

In the 1st singular, *-i:, -ya* is added to nouns, *-ni:* to verbs and particles. Before *-i:* final short vowels disappear: *kita:bu+i:, kita:bi+i:, kita:ba+i: > kita:bi:* 'my book' (nom., gen., acc.). To long vowels, *-ya* is suffixed with assimilation of *-u:* to *-i:* and *-aw* to *-ay*: *ʿammata:-ya* 'both my aunts', *muʿallimu:ya > muʿallimi:-ya* 'my teachers'. The second person is characterized by *k* as against the *t* of the independent pronoun and the personal markers of the perfect. The suffixes of the third person singular masculine are shortened after closed syllables (CVC and

CV:): *kita:bu-hu:* 'his book', but *'abu:-hu* 'his father'. After *-i:* and *-y, -hu:* turns into *-hi:*, e.g. *kita:bi:-hi:* (gen.), *'ammatay-hi* 'both of his aunts (obl.)'. In the dialect of Hejaz, this assimilation did not take place: *kita:bi-hu:*.

Pronominal suffixes are suffixed to the construct state of the noun, mostly with possessive meaning. Attached to verbs, they denote the object: *ra'ayta-ni:* 'you saw me', *tuʿjibu-hum* 'you appeal to them'. Two suffixes can be added to one verb: *'aʿṭaytu-ka-hu:* 'I gave thee it'. The suffixes of the 2nd and 3rd person plural masculine take the plural marker *-u:*, when a second suffix is attached: *'aʿṭayna:-kumu:-ha:* 'we gave you her'. There is another way to combine two pronominal objects with one verb, namely, by means of the particle *'iyya:-*, e.g. *'aʿṭaytu-ka 'iyya:-hu* 'I gave thee it'; it also makes it possible to place the pronominal object before the verb: *'iyya:-ka naʿbudu* 'thee we worship'.

Other Particles
The most frequent are connective particles and interjections.

Connective particles: *wa-* 'and', *fa-* 'and then, and so', *θumma* 'then, thereupon', *'aw* 'or', *'am* (< **'a-ma:*) 'or' in alternative questions: *'a-ha:δa: 'am δa:ka* 'this or that?'.

Particles of agreement or disagreement: *naʿam* 'yes indeed' (cognate to *naʿama* 'may he feel happy!'), *la:* 'no', *bal* 'nay', *bala:* 'certainly!', *'ajal* 'yes indeed'.

Interjections: *ya:* 'O', *'ayyuha:* 'O' (both for vocative). After *'ayyuha:* the noun follows with the definite article: *(ya:) 'ayyuha: l-muslimu:na* 'O you Muslims!', after *ya:* in the nominative of the definite state without article: *ya: rajulu* 'O man!' or, in case of a construct state, in the accusative: *ya: rasu:la lla:hi* 'O apostle of God!'. *ya: la-* is used for an exclamation of surprise: *ya: la-d-da:hiyati* 'O the misfortune!', or for a call for help: *ya: la-qawmi:* 'help, O my people'.

Verbal Morphology

Root Classes

' or *w* as First Radical
Roots with *w* as first radical partly originate in biconsonantal roots. The initial *w* is absent in the imperative, the imperfect active and in the verbal noun: *wasama* 'he branded', imperative *sim*, imperfect *yasimu*, verbal noun *simatun*. The verbal stem with infixed *-t-* (stem VIII) shows an unstable initial cluster **wt-* which is regularly replaced by *tt-*: **wtasama > (#'i)ttasama* 'he was branded'. The number of roots with sound *w* is very small: *wajila, yawjalu* 'to be afraid'. From the VIIIth stem with **wt- > tt-* new roots with *t* as first root consonant were sometimes developed: *taqi:yun* 'God-fearing' (root *t-q-y*) from *(#'i)ttaqa:* 'he feared God' (root *w-q-y*).

In roots with *'* as the first radical, after prefixes with *'*, the *'* of the root is dis-

similated with concurrent lengthening of the preceeding vowel: *ʾaʾmana >
ʾaːmana 'he believed', *ʾiʾmaːnun > ʾiːmaːnun 'belief'. In the imperatives of the
frequently employed verbs ʾakala 'he ate', ʾaxaδa 'he took', ʾamara 'he com-
manded' the dissimilation ends in the loss of the first radical: kul, xuδ, mur.

ʾ, w, y as Second Radical

Roots with w or y as second radical show in many patterns a long vowel between
the first and the third root consonant, and therefore are traditionally called hollow
roots. If the long vowel is high it usually, but not always, coincides in quality with
the underlying weak radical: yaluːmu 'he blames' (l-w-m), yabiːʿu 'he sells' (b-
y-ʿ), yaxaːfu 'he is frightened' (x-w-f).

In patterns with a long vowel or a geminated second radical, w and y appear as
consonants: qawaːmun 'straightness', xawwafa 'he frightened', bayyaːʿun 'deal-
er'; w is frequently assimilated to i: qiyaːmun 'standing', *qiwmatun > qiːmatun
'value'. From such cases a separate root with y instead of w sometimes derived:
qayyama 'he evaluated'. In the active participle faːʿil the second radical is re-
placed by a glottal stop: baːʾiʿun 'selling'. Derivatives of later origin frequently
exhibit w and y as consonants: qawadun 'retaliation', hayafun 'slenderness'.

As a second radical, ʾ remains unchangeable with the exception of ʾaraː 'he
showed' which is dissimilated from *ʾarʾaː. raʾaː 'he saw' loses ʾ only in the im-
perfect: yaraː 'he sees'.

w or y as Third Radical

Nominal and verbal derivatives from roots with a weak third radical have a final
long vowel equivalent in its quality to the last vowel of the inflectional base pat-
tern.

daʿaː, yadʿuː	'to call'	=	faʿala, yafʿulu
ramaː, yarmiː	'to throw'	=	faʿala, yafʿilu
laqiya, yalqa	'to meet'	=	faʿila, yafʿalu
daːʿi:-, raːmi:-, laːqi:-		=	faːʿil- (active participle)
but talaqqi:-	'receipt'	=	tafaʿʿul

When suffixes are annexed, some phonetic alternations take place: the homo-
geneous vowels (i.e. iː and uː) are displaced by the affixed vowel: *tadʿuː+iːna
> tadʿiːna 'thou (f.) call', *tarmiː+uːna > tarmuːna 'you call'. When aː is af-
fixed, aː+iː, aː+uː are contracted to ay, aw: *talqaː+iːna > talqayna 'thou (f.)
meet', *talqaː+uːna > talqawna 'you meet'. Before aː or consonantal suffixes, -aː
is changed to ay or aw according to the vowel of the imperfect stem.

daʿaː+aː	> daʿawaː	'both of them called'
daʿaː+tu	> daʿawtu	'I called' according to yadʿuː
ramaː+aː	> ramayaː	'both of them threw'
ramaː+tu	> ramaytu	'I threw' according to yarmiː

Identical Second and Third Radicals

The roots with geminated second radical may partly be of biconsonantal origin. In the derivatives geminated consonants alternate with separated second and third root consonants, since gemination only takes place in the sequence CVCV : *madda, yamuddu* 'to extend' = *faʿala, yafʿulu*, but *madadtu* 'I extended', *yamdudna* 'they (f.) extend'.

In order to avoid the alternation, forms ending in -CVC can take a paragogic vowel: apocopate *yamudda, yamuddu* beside *yamdud = yafʿul*. In the perfect some dialects inserted *a:* or *ay* before the consonantal suffixes: *madda:tu, maddaytu* instead of CA standard *madadtu*. Forms corresponding to *maddaytu* became common in the modern dialects.

Derivational Patterns ("Stems")

Most verbs follow ten derivational patterns, the so-called "stems": a basic stem and nine derived stems formed by root-internal and prefixal modification. Every stem has two inflectional bases, one for the suffix conjugation (perfect) and one for the prefix conjugation (imperfect). The difference is marked by vowel change except for the stems V and VI. Vocalic differentiation within the perfect base occurs in the basic stem (I). All others have *a-a* as base vowels.

In **stem I,** *faʿala* contains transitive and intransitive verbs of action: *qatala* 'he killed', *qa:ma* 'he stood up'; *faʿila* contains intransitive verbs, often denoting a temporary state: *raḍiya* 'he became satisfied', but there are exceptions like *šariba* 'he drank'. *faʿula* is reserved for qualities: *ṣaʿuba* 'he is difficult'; in this function *faʿila* is found too: *ʿawija* 'he is crooked'.

Stem II *faʿʿala, yufaʿʿilu* expresses an iterative as against the single action: *kasara* 'he broke', *kassara* 'he fragmentized', as well as causativity and factitivity: *ʿallama* 'he caused to know, he taught', often in an appellative sense: *kaδδaba* 'he called somone a liar' (*kaδaba* 'he lied'); it is frequently denominative: *lawwana* 'to color' (from *lawnun* 'color').

Stem III *fa:ʿala, yufa:ʿilu* is a verbalization of the active participle *fa:ʿil*. It denotes the attempt to achieve an action directed towards someone: *qa:tala* 'he tried to kill (*qatala*)' > 'he fought', *sa:ʿada* 'he attempted to achieve happiness for someone' > 'he helped' (*saʿida* 'he is happy').

Stem IV *ʾafʿala, yufʿilu* makes a causative of the basic stem: *ʾadxala* 'he let enter' (*daxala* 'he entered'), *ʾaγa:ra* 'he made jealous' (*γa:ra* 'he was jealous'). Frequently it denotes the action versus the state: *ʾaḥsana* 'he acted well' (*ḥasuna* 'he is good'). Derived from nouns, it denotes direction towards something: *ʾanjada* 'he went to Nejd (*ʾan-najdu*)', *ʾaṣbaḥa* 'he began to do something in the morning' or 'he entered into the morning (*ṣaba:ḥun*)'.

Stem V *tafaʿʿala, yatafaʿʿalu* is the reflexive of stem II: *taʿallama* 'he taught himself, he learned'. It denotes actions which come to pass without an agent (pseudo-passive): *tadawwara* 'it (m.) is circular' (*dawwara* 'he made round'), as a reflexive of the appellative stem II pretense: *tanabbaʾa* 'he claimed to be a prophet'.

Stem VI is the reflexive or pseudo-passive of stem III: *taṣaːdafa* 'it happened by chance' (*ṣaːdafa* 'he met by chance'). In most cases it denotes reciprocity: *taʿaːwanu:* 'they assisted one another' (*ʿaːwana* 'he attempted to assist'), sometimes pretense: *tamaːraḍa* 'he pretended to be sick'.

Stem VII (*ʾi)nfaʿala, yanfaʿilu* is a pseudo-passive of the basic stem: (*ʾi)nḥadara* 'he descended' (*ḥadara* 'he brought down').

Stem VIII (*ʾi)ftaʿala, yaftaʿilu* is a reflexive of the basic stem: (*ʾi)ḥtajaba* 'he veiled himself' (*ḥajaba* 'he veiled'). Often it denotes an action done in favor of the agent: (*ʾi)ktašafa* 'he disclosed for his own sake, he detected' (*kašafa* 'he disclosed') or pseudo-passive: (*ʾi)ḥtaraqa* 'he took fire' (*ḥaraqa* 'he burnt something'). The infixed -*t*- is assimilated to preceding dentals: (*ʾi)ḍṭaraba* 'he got agitated', (*i)zdaḥama* 'he got crowded'.

Stem X (*ʾi)stafʿala, yastafʿilu* is a reflexive of the stem IV: (*ʾi)staʿadda* 'he prepared himself' (*ʾaʿadda* 'he prepared'), (*ʾi)staʿlama* 'he asked for information' (*ʾaʿlama* 'he gave information'). If the causative is appellative, then the reflexive means considering something to be such and such: (*ʾi)staxaffa* 'he thought it light' (*xaffa* 'he was light').

Stem IX (*ʾi)fʿalla, yafʿallu* and **stem XI** (*ʾi)fʿaːlla, yafʿaːllu* are related to the adjectives of color and eye-catching qualities of the pattern *ʾafʿalu:* (*ʾi)swadda 'he became black' (*ʾaswadu* 'black'). Outside that group this stem is very rare: (*ʾi)rfaḍḍa 'he scattered'.

The patterns of four-consonantal roots correspond with those of the three-consonantal ones: (I) *faʿlala, yufaʿlilu* is equivalent to stem II, (II) *tafaʿlala, yatafaʿlalu* is equivalent to stem V, and (III) (*ʾi)fʿalalla, yafʿalillu* is formally equivalent to stem IX, but not bound to a specific nominal pattern. There are verbs outside these patterns such as *haydala, yuhaydilu* 'he cooed' (root *h-d-l*), (*ʾi)rʿawa:, yarʿawi:* 'he looked after' (root *r-ʿ-w*), (*ʾi)xḍawḍara, yaxḍawḍiru* 'he became green' (root *x-ḍ-r*), (*ʾi)ʿlawda:, yaʿlawdi:* and (*ʾi)ʿlawwada, yaʿlawwidu* 'he is strong' (root *ʿ-l-d*). They are classed among the following patterns: (*ʾi)fʿawʿala, (*ʾi)fʿawwala, (*ʾi)fʿanlala, (*ʾi)fʿanla: (stems XII–XV).

Verbal Inflection

Morphological Categories

All verbs except a few defective ones make a perfect; an imperfect, including three moods, indicative, subjunctive and jussive (or apocopate); an imperative; an active and a passive participle; as well as a verbal noun. In both perfect and imperfect, there is a passive voice distinguished from the active by internal vocalic change.

The perfect, which originates in a stative as preserved in Akkadian, is inflected with suffixes. The stative function is retained in verbs of quality (*faʿila, faʿula*). The jussive (apocopate) is of twofold origin: it continues the old Semitic preterite (Akkadian *iprus*) on the one hand, and is an inflected imperative, i.e. jussive, on the other. As a past tense it is confined to conditional sentences and the use after

the negative *lam*. The imperfect indicative is derived from the apocopate forms by the markers *-u* and *-n(a)* which originally denoted simultaneity. The subjunctive is restricted to subordinate clauses and has become more and more bound with particular conjunctions such as *ʾan*, *kay*, *ḥatta:*, and the negative *lan*. The so-called *energicus* is formed by adding *-anna*, (rarely) *-an*, to the imperfect inflectional base. It is employed in order to emphasize statements or wishes relating to the future: *la-ʾuɣwiyanna-hum ʾajmaʿi:na* 'I will surely lead them all astray'.

Both perfect and imperfect refer to time and aspect. The perfect denotes a single complete action, mainly with reference to the past: *jalasa ḥayθu jalasa ʾabu:hu* 'he sat where his father had sat', but also to the present or future, as in wishes and vows: *ʾa:laytu la: xa:marat-ni: l-xamru* 'I swear, wine shall not have made me intoxicated'. The imperfect denotes an action in its process and is normally interpreted as referring to the actual or habitual present or to the future: *qul-i lla:hu yuḥyi:-kum θumma yumi:tu-kum θumma yajmaʿu-kum ʾila: yawmi l-qiya:mati* 'say: God lends life to you, then He makes you die, thereupon He will gather you to the day of resurrection'. Future is made definite by adding *sawfa* or *sa-*: *sawfa ʾastaɣfiru la-kum rabbi:* 'I shall ask my Lord to forgive you'. If the context indicates past, the imperfect expresses an actual or habitual action in the past, *ka:na* 'he was' being the most frequently used means of indicating the past: *ka:na n-nabi:yu yaʿu:du l-mari:ḍa wa-yuja:lisu l-fuqara:ʾa* 'the prophet used to visit the sick and to sit with the poor'. To mark the pluperfect, *ka:na* can be compounded with the perfect: *qad ka:na rasu:lu lla:hi baʿaθa -hu: ʾila: Makkata* 'the apostle of God had sent him to Mecca'.

Suffix Inflection (Perfect)
The suffix inflection is illustrated below with the verb *kataba* 'he wrote'.

	Singular	Dual	Plural
1	*katab-tu*		*katab-na:*
2m.	*katab-ta* f. *katab-ti* *katab-tuma:*		m. *katab-tum* f. *katab-tunna*
3m.	*katab-a* f. *katab-at* m. *katab-a:*	f. *katab-at-a:*	m. *katab-u:* f. *katab-na*

The suffixes of the 2nd person are identical with those of the personal pronoun. The 3rd person is marked by the nominal suffixes sg. f. *-at*, pl. m. *-u:*; pl. f. *-na* is also found in the imperfect and personal pronoun. The masculine singular is unmarked (*-a* originates in an auxiliary vowel). The dual forms of the 3rd person are derived by adding the nominal marker *-a:* to the singular forms.

The inflectional base of weak verbs undergoes phonetic changes mentioned above (see p. 204). In the basic stem, there are four types of inflectional bases, those ending in *-a:/-ay*, *-a:/-aw*, *-iy* and very seldom *-uw*.

1   *rama:* 'he threw', *ramat, ramaya:, ramata:, ramaw, ramayna* etc.
2   *daʿa:* 'he called', *daʿat, daʿawa:, daʿata:, daʿaw, daʿawna* etc.
3   *nasiya* 'he forgot', *nasiyat, nasiya:, nasiyata:, nasu:, nasiyna* etc.
4   *saruwa* 'he is high-minded', *saruwat, saruwa:, saruwata:, saru:, saruwna* etc.

All derived stems behave as *rama:*.

The inflectional base of hollow verbs (see p. 204) shows a long *a:*, which is shortened when consonantal suffixes are added. The shortened forms have a high vowel agreeing in roundness with the vowel of the imperfect base: *ka:na* 'he was', *ka:nat, ka:nu:*, but *kuntu* 'I was' (*yaku:nu* 'he is'); *sa:ra* 'he marched', *sa:rat, sa:ru:*, but *sirtu* 'I marched' (*yasi:ru* 'he marches'); *na:ma* 'he slept', *na:mat*, but *nimtu* 'I slept' (*yana:mu* 'he sleeps'). A single verb, *ma:ta* (*yamu:tu*) 'he died', has the irregular vowel change *a: ~ i* (*mittu* 'I died'). In the derived stems, there is no vowel change: *'aqa:ma* 'he straightened', *'aqamtu* (root *q-w-m*); *('i)xta:ra* 'he chose', *('i)xtartu* (root *x-y-r*). In a similar way the negative *laysa* 'he is not' is inflected: *laysa, laysat, laysa:, laysata:, laysu:*, but *lasna, lastu* etc.

Prefix Inflection (Imperfect)

The inflectional prefixes mark person and gender. Number and, in the 2nd person singular, gender, is marked by suffixes. There are two sets of prefixes. One with the vowel *a* (*ya-, ta-* etc.) is used with the basic stem and the reflexive stems, another with the vowel *u* (*yu-, tu-* etc.) is used with the transitive causative stems and in the passive voice. The prefix *'a-* of stem IV is deleted by the inflectional prefixes.

	Singular		Dual		Plural	
1	*'-...-Ø*				*n-...-Ø*	
2m.	*t-...-Ø*	f. *t-...-i:*	*t-...-a:*		m. *t-...-u:*	f. *t-...-na*
3m.	*y-...-Ø*	f. *t-...-Ø*	m. *y-...-a:*	f. *t-...-a:*	m. *y-...-u:*	f. *y-...-na*

The above affixes form the jussive (apocopate):

malaka 'he possessed' (stem I)
1st   *'amlik, namlik*;
2nd   *tamlik, tamliki:, tamlika:, tamliku:, tamlikna*;
3rd   *yamlik, tamlik, yamlika:, tamlika:, yamliku:, yamlikna*.

'amlaka 'he put in possession' (stem IV)
1st   *'umlik, numlik*;
2nd   *tumlik, tumliki:, tumlika:, tumliku:, tumlikna*;
3rd   *yumlik, tumlik, yumlika:, tumlika:, yumliku:, yumlikna*.

In the subjunctive, the suffix *-a* takes the place of *-Ø*:

1st   *'amlika, namlika*;
2nd   *tamlika, tamliki:, tamlika:, tamliku:, tamlikna*;
3rd   *yamlika, tamlika, yamlika:, tamlika:, yamliku:, yamlikna*.

In the indicative *-u* replaces *-Ø* and *-na* is added to the suffixes *-i:* and *-u:*, *-ni* to the dual ending *-a::*

1st	*ʾamliku, namliku*;
2nd	*tamliku, tamliki:na, tamlika:ni, tamliku:na, tamlikna*;
3rd	*yamliku, tamliku, yamlika:ni, tamlika:ni, yamliku:na, yamlikna.*

The inflectional bases of hollow verbs must be shortened when consonantal suffixes or -Ø are added: *yaqu:mu* 'he stands up', *yaqu:mu:na, yaqu:ma* etc., but *yaqum, yaqumna*; *yasi:ru* 'he marches', *yasi:a*, but *yasir*; *yana:mu* 'he sleeps', *yana:ma*, but *yanam*. Verbs with *w* or *y* as third radical also form the jussive by shortening the vowel: *yansa:* 'he forgets', *yadʿu:* 'he calls', *yarmi:* 'he throws', *yuṣalli:* 'he prays'; jussive *yansa, yadʿu, yarmi, yuṣalli.*

Imperative
The imperative has the shape of the 2nd person of the jussive, but without inflectional prefix:

Jussive sg. 2m. *ta-qum*	f. *ta-qu:mi:*	du. *ta-qu:ma:*	pl.m. *ta-qu:mu:*	f. *ta-qumna*
Imperative *qum*	*qu:mi:*	*qu:ma:*	*qu:mu:*	*qumna*

The causative prefix *ʾa-* (stem IV), which is deleted after the inflectional prefixes, is restored in the imperative: *yuqi:mu* 'he straightens' (*ʾaqa:ma*) has the jussive *tuqim, tuqi:mi:* etc., but in the imperative *ʾaqim, ʾaqi:mi:* etc.

As a result of the omission of the prefix, many verbs have an initial consonant cluster. Therefore a prosthetic vowel is added. It is *i*, if the inflectional base contains *a* or *i* but *u* in case of *u* in the inflectional base:

jalasa 'he sat down'	jussive *ta-jlis*	imperative #*ʾijlis*
nasiya 'he forgot'	jussive *ta-nsa*	imperative #*ʾinsa*
kataba 'he wrote'	jussive *ta-ktub*	imperative #*ʾuktub*
daʿa: 'he called'	jussive *ta-dʿu*	imperative #*ʾudʿu*
(ʾi)xta:ra 'he chose'	jussive *ta-xtar*	imperative #*ʾixtar*

As for verbs with geminated second radical, there is a choice between geminated and ungeminated forms: *madda* 'he extended', jussive *ta-mdud/ta-mudd-a*, imperative #*ʾumdud/mudd-a*. Some verbs with *ʾ* as first radical lose it in the imperative (see p. 203).

Internal Passive
All verbs which can be supplied with direct or indirect objects are able to form an internal passive. In the suffix inflection, it is made by shifting the vowel sequence *a–a/i* to *u–i*:

I: *qatala* 'he killed' : *qutila* 'he was killed', *rama:* 'he threw' : *rumiya* 'he was thrown', *samiʿa* 'he heard' : *sumiʿa* 'he was heard';
III: *wa:jaha* 'he faced' : *wu:jiha* 'he was faced';

IV: *ʾadxala* 'he introduced' : *ʾudxila* 'he was introduced';
V: *talaqqa:* 'he received' : *tuluqqiya* 'he was received';
X: *(ʾi)staš̌hada* 'he quoted' : *(ʾu)stuš̌hida* 'he was quoted'.

Hollow verbs replace *a:* of the inflectional base by *i:*, e.g. *qa:da* 'he led' : *qi:da* 'he was led', *(ʾi)staša:a* 'he asked for advice' : *(ʾu)stuši:ra* 'he was asked for advice'.

The passive of the prefix inflection is formed by changing the vowels of the inflectional base to *a* or *a:*. The prefixes are vocalized with *u:* *yaksiru* 'he breaks' : *yuksaru* 'he is broken, *yadʿu:* 'he calls' : *yudʿa:* 'he is called', *yuʿi:du* 'he brings back' : *yuʿa:du* 'he is brought back'. The *w* as first radical which is lost in the active forms, is restored in passive: *yajidu* 'he finds' (from *wajada*) : *yuwjadu* 'he is found, he exists'.

The CA passive is strictly agentless. The expression of a known agent is excluded. In transforming an active sentence structure to a passive one, the first object gets the position of the subject, other complements remain untouched: *wajadtu l-kita:ba mufi:dan* 'I found the book useful' > *wujida l-kita:bu mufi:dan* 'the book was found useful'. If a verb which governs a prepositional phrase is put into the passive, the prepositional phrase remains in place: *ʾaθiqu bi-kum* 'I place my confidence in you' > *yuwθaqu bi-kum* 'one's confidence is placed in you'.

Participles
The active participle of the basic stem is formed by *fa:ʿil:* *ka:tibun* 'writing', *da:ʿin* 'calling' (root *d-ʿ-w*), *qa:ʾidun* 'leading' (root *q-w-d*), *ma:ssun* 'touching' (root *m-ss*). The passive participle is derived by *mafʿu:l* (< *ma-faʿu:l): *maktu:bun* 'written', *mamsu:sun* 'touched'. As for weak and hollow verbs, the vowel *i:* of the imperfect displaces the *u:* of *mafʿu:l:* *marmi:yun* 'thrown' (*yarmi:*), *madʿu:wun* 'called' (*yadʿu:*), *mabi:ʿun* 'sold' (*yabi:ʿu*), *maqu:dun* 'led' (*yaqu:du*), but *maxu:fun* 'feared' (*yaxa:fu*).

The participles of the derived stems are formed by prefixed *mu-*. Active participles have *i*, passive participles *a* in the inflectional base: (II) *mufaʿʿilun* – *mufaʿʿalun*; (III) *mufa:ʿilun* – *mufa:ʿalun*; (IV) *mufʿilun* – *mufʿalun*; (V) *mutafaʿʿilun* – *mutafaʿʿalun*; (VI) *mutafa:ʿilun* – *mutafa:ʿalun*; (VII) *munfaʿilun* – *munfaʿalun*; (VIII) *muftaʿilun* – *muftaʿalun*; (IX) *mufʿallun* (only active); (X) *mustafʿilun* – *mustafʿalun*.

Stative verbs do not form participles, instead, adjectives of various patterns derived from them, e.g. *danisun* 'soiled' to *danisa* 'he is soiled', *ʾali:mun* 'painful' to *ʾalima* 'he is in pain', *jawa:dun* 'openhanded' to *ja:da* 'he was openhanded'. Prepositional phrases governed by verbs can accompany the passive participle: *mawθu:qun bi-hi:* 'someone who is trusted', *muḍa:fun* 'a thing that is added to something', *muḍa:fun ʾilay-hi* 'a thing to which something is added'. Passive participles derived from pseudo-passive verbs are used as *nomina loci:* *munḥanan* 'bend, curve'.

Verbal Nouns

Every verb except defective ones such as *'asa:* 'it could be that ...' has a verbal noun (often called infinitive). It behaves like other nouns, taking case markers and definiteness/indefiniteness and may be the head of a genitive construction. Whereas the formation of the verbal nouns of derived stems is regular and predictable, there are numerous patterns of abstract nouns associated as verbal nouns with the basic stem:

> *faʿl* is the most common: *ḍarbun* to *ḍaraba* 'he beat', *qawlun* to *qa:la* 'he said';
>
> *faʿal* mainly belongs to *faʿila*: *ʿamalun* to *ʿamila* 'he acted', but also to verbs with *r* or *l* as second radical: *ṭalabun* to *ṭalaba* 'he demanded', *harabun* to *haraba* 'he fled';
>
> *faʿala:n* to verbs of iterative action: *xafaqa:nun* to *xafaqa* 'it (m.) vibrated';
>
> *fiʿl* to verbs of remembrance: *ðikrun* to *ðakara* 'he remembered', *ʿilmun* to *ʿalima* 'he knew';
>
> *fuʿu:l* to verbs of movement: *xuru:jun* to *xaraja* 'he went out', *duxu:lun* to *daxala* 'he entered';
>
> *fuʿa:l* to verbs of sound-making: *nuba:ḥun* to *nabaḥa* 'he barked', *suʾa:lun* to *saʾala* 'he asked';
>
> *fiʿa:lat* to verbs of cultural activities: *kita:batun* to *kataba* 'he wrote', *qira:ʾatun* to *qaraʾa* 'he read';
>
> *faʿa:lat* and *fuʿu:lat* to verbs of quality: *suhu:latun* to *sahula* 'it (m.) easy'.

The formation of verbal nouns by lengthening the last vowel of the inflectional base to *a:* is characteristic of the stems III, IV and VII–X and is also used for a few basic stems such as *ðaha:bun* to *ðahaba* 'he went away', *ʾiba:ʾun* to *ʾaba:* 'he refused'; the derived stems have: (III) *fiʿa:lun*, (IV) *ʾifʿa:lun*, (VII) *(ʾi)nfiʿa:lun*, (X) *(ʾi)stifʿa:lun* showing the vowel sequence *a–a:*.

Stem V and VI have *tafaʿʿulun, tafa:ʿulun*, a formation which has no parallel in CA nominal or verbal morphology, but has to be compared with Akkadian verbal nouns of the derived stems such as *purrusum* to *uparris* (preterite), *pitarrusum* to *iptarras* etc. Stem II is associated with *tafʿi:l/tafʿilat* as its regular verbal noun: *takði:bun* to *kaððaba* 'he called a liar', *tajliyatun* to *jalla:* 'he made clear'.

Syntax

Nominal Sentences and Verbal Sentences

CA has three types of sentences: (1) verbal sentences with the word order verb–subject–object; (2) nominal sentences with a nominal phrase as predicate; (3) enlarged nominal sentences consisting of a subject and a verbal or nominal clause as predicate. In all cases the subject is marked by the nominative.

Verbal Sentence

Word order in the verbal sentence is modeled on the suffixal inflection in which the pronominal subject marker immediately follows the inflectional base:

xaraja – Zaydun	according with	*xaraj-tu*
'went out – Zayd', i.e. 'Zayd went out'		'went out-I', i.e. 'I went out'

Since the basic form (*faʿala*) is devoid of any subject marker, an agreement in gender and number with the following subject is not required. This situation is still recognizable in the earliest texts: *baka: bana:tuhu:* 'his daughters cried', *kayfa ka:na ʿa:qibatu l-mukaδδibi:na* 'how was the outcome of the disbelievers?'. The feminine form (*faʿalat*) came up in accordance with a following feminine subject: *qa:lat-i mraʾatu ʿImra:na* "Imra:n's wife said'. Agreement in number never became established in CA.

Thus verbal sentences follow the following models: *xaraja/yaxruju rajulun, rajula:ni, rija:lun* 'a man, two men, some men went out/go out', *xarajat/taxruju mraʾatun, mraʾata:ni, nisa:ʾun* 'a woman, two women, some women went out/go out'. Reference to the plural of nouns denoting nonhuman beings requires the feminine singular: *ʾila: lla:hi tarjiʿu l-ʾumu:ru* 'to God return (all) matters'. On the other hand, if a verb refers to a noun mentioned before, it agrees not only in gender, but also in number: *naδara baʿḍu-hum ʾila: baʿḍin θumma nṣarafu:* 'they looked at one another, then they turned away', *ʾaṣbaḥat-i l-imraʾata:ni tanu:ḥa:ni* 'both of the women began to lament'. In this case gender and number markers of the verb have to be considered as pronominal exponents of the subject, i.e. *(ʾi)nṣarafu:* 'turned away-they', in the example given above, is a complete sentence.

Nominal Sentences

The predicate of a nominal sentence is a nominal phrase (noun or prepositional phrase). There is no copula. The nominal predicate is normally indefinite and takes the nominative. It agrees in gender and number with the subject like an attribute: *ʾar-rija:lu qawwa:mu:na ʿala: n-nisa:ʾi* 'men are preeminent over women'. If the predicate is definite, a personal pronoun of the 3rd person intervenes between subject and predicate in order to prevent the interpretation as an attributive phrase: *kalimatu lla:hi hiya l-ʿulya:* 'the word of God is the most superior'.

The nominal sentence refers to the present. With non-present time reference *ka:na, yaku:nu* 'to be' is used. It requires the predicative noun to take the accusative: *kuntum qawman musrifi:na* 'you were an immoderate people'.

The nominal sentence is negated by *ma:* or *laysa. laysa* governs, like a verb, the accusative or the preposition *bi-*: *lasta mursalan* 'thou art not a messenger', *lasta ʿalay-him bi-muṣayṭirin* 'thou art not a commander over them'. After the negative *ma:* too the predicate occurs with or without *bi-*: *ma: Muḥammadun ʾilla: rasu:lun* 'Muhammad is not but a messenger', *ma: hum bi-muʾmini:na* 'they are not believers'. A characteristic of the Hejazi dialect is the construction of *ma:*

analogous to *laysa* with an accusative: *ma: ha:ða: bašaran* 'this is not a human being'.

The negative *la:* followed by a noun in the accusative without nunation negates the existence of something: *la: ḥawla wa-la: quwwata ʾilla: bi-lla:hi* 'there is no power and no strength save in God'.

Enlarged Nominal Sentences

Sentences consisting of a subject in the first position and a predicative verbal or nominal clause in the second position have to be considered as topic–comment sentences. The predicative clause contains a reference pronoun which links the predicate with the subject. It may be embodied in the verb or in any other part of the predicative clause: *ʾinna rusula-na: yaktubu:na ma: tamkuru:na* '(certainly) our messengers: they write down the tricks you have used', *ʾaz-za:niyatu la: yankiḥu-ha: ʾilla: za:nin* 'the female fornicator: only a fornicator shall marry her', *ʾal-baɣyu martaʿu-hu: waxi:mun* 'the outrage: its pasture is unhealthy'.

Questions

Interrogatives take the head position of the sentence: *ma: ʾantuma: wa-min ʾayna jiʾtuma:* 'what sort of people are you both, and from where did you come?'. They occur in genitive position: *ʾabu: man ʾanta* 'whose father are you?', *bi-ʾayyi ḥadi:θin baʿda-hu: yuʾminu:na* 'in which report do they believe after that?', and may take the position of an object: *ʾayya ʾa:ya:ti lla:hi tunkiru:na* 'which of God's signs do you deny?'.

Interrogative sentences are introduced by an interrogative particle. Lack of the particle is very rare. The most frequent of the particles is *ʾa-*: *ʾa-yaḥsabu ʾan lam yara-hu: ʾaḥadun* 'did he think that no one has seen him?'. The particle *hal* introduces questions which are often rhetorical and imply a negative sense: *hal yastawi: l-ʾaʿma: wa-l-baṣi:ru* 'are the blind and the seeing equal?'.

The Nominal Phrase

Nominal Attributes

Attributes follow the noun and agree with it in definiteness/indefiniteness, case and gender: *ja:run ḥasanun* 'a good neighbor', *ʾal-ja:ru l-ḥasanu* 'the good neighbor'; *ja:ratun ḥasanatun* 'a good neighbor (f.)', *ʾal-ja:ratu l-ḥasanatu* 'the good neighbor (f.)'. Agreement in number takes place in the dual and, if the head noun denotes a human being, in the plural: *ja:rata:ni ḥasanata:ni* 'two good neighbors (f.)', *ji:ra:nun ḥisa:nun* 'good neighbors', *ja:ra:tun ḥsana:tanun* 'good neighbors (f.)'. Relating to a plural denoting non-human beings the adjective takes the feminine singular: *ʾal-ʾaʿma:lu l-ḥasanatu* 'the good deeds'.

Attributive Clauses

Nominal sentences as well as verbal sentences occur as attributes or predicates. If the head noun is definite and its attendant clause is indefinite, the clause is inter-

preted as predicate. If both have the same status of definiteness, the attendant clause is an attribute. Definite attributive clauses are marked by the relative (see p. 200), indefinite attributive clauses remain unmarked. The attributive clause normally contains a reference pronoun which combines it with the head noun.

> *ʾar-rajulu bi-yadi-hi: sayfun* 'the man: in his hand is a sword', i.e. 'the man holds a sword in his hand'
> *ʾar-rajulu l-laδi: bi-yadi-hi: sayfun* 'the man in whose hand is a sword'
> *rajulun bi-yadi-hi: sayfun* 'a man in whose hand is a sword'

Attributive clauses undergo a transformation if the predicate is an adjective or a participle. Then the predicate is attracted to the head noun and agrees with it in definiteness/indefiniteness and case, but in gender/number it agrees with its following subject:

> **fi: rijja:ln nifa:qu-hum maʿru:fun > fi: rija:lin maʿru:fin nifa:qu-hum* '(accompanied) by men whose hypocrisy is well known'
> **fi: r-riija:li l-laδi:na nifa:qu-hum maʿru:fun > fi: r-rija:li l-maʿru:fi nifa:qu-hum* '(accompanied) by the men whose hypocrisy is well-known'.

Genitive Construction

The head noun of a genitive construction is in the construct state (see p. 195), the noun depending on it follows in the genitive. Between the two nouns no other word is permitted; an attribute referring to the head noun has to follow after the annexed genitive. The phrase as a whole is definite or indefinite according to the state of the genitive noun: *kita:bu ʿa:limin qayyimun* 'a valuable book of a scholar', *kita:bu l-ʿa:limi l-qayyimu* 'the valuable book of the scholar' and *kita:bu ʿa:limin na:bihin* 'a book of an eminent scholar', *kita:bu l-ʿa:limi n-na:bihi* 'the book of the eminent scholar'. The genitive expresses either a possessive or a partitive relationship: *kita:bu l-ʿa:limi* 'the book of the scholar (possessed or written by him)', *ʾawwalu l-ḥika:yati* 'the first part (i.e. the beginning) of the story'. Notice also the constructions on p. 197, Quantifying Nouns.

Annexed to adjectives, the genitive expresses limitation: *ṭa:hiru l-qalbi* 'pure of heart', *ʿaδi:mu l-qadamayni* 'big with respect to his two feet'. Although the genitive has always the definite article, the whole phrase is not definite; it takes the definite article if attributed to a definite head noun: *rajulun ṭa:hiru l-qalbi* 'a man having a pure heart', *ʾar-rajulu ṭ-ṭa:hiru l-qalbi* 'the man having a pure heart'.

The Accusative in Nominal Phrases

To specify quantities, the indefinite accusative comes within verbal as well as nominal phrases: *miθqa:lu δarratin xayran* 'the weight of a dust particle in good'. The accusative of specification comes with quantifying nouns and pronouns: *kam kita:ban* 'how many books?', *ʾakbaru-na: sinnan* 'the oldest of us in age', *ʾaṭharu*

qalban 'purer/purest in heart' (elative to *ṭa:hiru l-qalbi* 'pure of heart', see above, p. 214).

The Verbal Phrase

Accusative and Prepositional Objects

There are intransitive verbs without any object such as *rakaʿa* 'he bowed in prayer' and others that get transitivity by means of prepositions, such as *jalasa* 'he sat down': *jalasa ʾila: ʾaḥadin* 'he sat down with someone'. Especially the preposition *bi-* 'with' gives the verb a transitive meaning: *qa:ma* 'he stood up': *qa:ma bi-fiʿlin* 'he stood up with doing something', i.e. 'he undertook something'. The transitive verb may govern objects in the accusative and/or objects annexed by prepositions. e.g. one accusative object: *ʾata: ʾaḥadan* 'he came to someone', two accusative objects: *ʾa:ta: ʾaḥadan šayʾan* (causative stem IV of *ʾata:*) 'he brought someone something', one preposition: *raγiba fi: šayʾin* 'he desired something' etc.

Negatives of the Verbal Phrase

CA has a complex system of negatives: *γayru* is employed with nouns (see p. 197), *ma:*, *la:*, *ʾin*, and *laysa* with both nominal and verbal phrases, *lam* and *lan* only with verbs.

la: is the negative of the imperfect (indicative and subjunctive): *la: yaktubu* 'he does not write', *li-kay-la: yaktuba* 'in order that he does not write'. With the jussive *la:* serves for prohibition: *la: tajlis* 'don't sit down!', with the perfect for a negative wish: *la: fuḍḍa fu:-ka* 'may thy teeth (lit. mouth) not be broken!'.

lam with the jussive (apocopate) denotes a negative past tense: *lam yaktub* 'he did not write'.

lan followed by the subjunctive, marks a negative future: *lan yakutba* 'he never will write'.

ma: is more expressive than *la:* or *lam* and negates the occurence of an action as a whole, not only in a certain case: *li-tunδira qawman ma: ʾata:-hum min naδi:rin min qabli-ka* 'in order that thou warnest a people to whom before thee never a warner has been come', *ma: yuzakka: l-ʾinsa:nu bi-šaha:dati ʾahli bayti-hi:* 'a man is not declared righteous by the evidence of his own household'.

ʾin as a negative is rarely used; it is sometimes combined with *ma:* (*ma: ʾin*).

laysa may be combined with verbs: *lastu ʾaqṣidu l-ḥarba* 'I do not intend to make war'.

Optional Accusatives Governed by the Verb

The Internal Object

Every transitive or intransitive verb can take an internal object which consists of a verbal noun in the accusative, usually belonging to the same verb. When it stands alone, it lays emphasis on the action itself: *na:ma nawman* 'he slept a (real) sleep',

also with the passive: *ḍuriba ḍarban* 'he was struck (with) a striking'. Often the internal object is connected with a complement that expresses a special quality of the action: *ḍarabtu-hu: ḍarbatayni* 'I struck him two strikes', *ḍarabtu-hu: ḍarban šadi:dan* 'I struck him (with) a violent striking', *naẟartu ʾilayhi naẟrata l-maɣḍu:bi* 'I look at him the look of the angry, i.e. I gave him an angry look'.

Adverbial Accusatives
The function of the internal object has been enlarged by using verbal or abstract nouns as well as nouns denoting time, place or measure. This sort of accusative may be interpreted as an adverbial phrase, denoting

1   time: *sa:ra yawman* 'he traveled for a day';
2   place and direction: *waḍaʿa sayfa-hu: ja:niban* 'he put his sword aside';
3   motivation: *(ʾi)nṣaraftu maxa:fata š-šarri* 'I turned away from him for fear of evil';
4   mode: *ẟahaba mašyan* 'he went away walking';
5   specification: *za:dat-ni: ruʾyatu-hu: ɣaḍaban* 'looking at him increased me in rage'. This usage of the accusative has been transferred to the nominal phrase (see p. 214).

Additional Predicative Clauses
The verbal phrase may be enlarged by an additional predicative phrase which describes an attendant contemporaneous circumstance. The additional predicative phrase, traditionally called circumstance clause, is basically an enlarged nominal clause connected with the main clause by *wa-* 'and': *ʿa:dat Zaynabu wa-hiya tab-ki:* or *ʿa:dat Zaynabu wa-hiya ba:kiyatun* 'Zaynab returned (and she is) weeping'.

In most cases, it is possible to transform the basic structure by deletion of *wa-* together with the following reference pronoun. Then the predicative adjective or participle is changed into the accusative: *ʿa:dat Zaynabu tabki:* or *ʿa:dat Zaynabu ba:kiyatan* 'Zaynab returned weeping'.

The immediate annexation of the predicative verb is possible, in particular after verbs of motion as well as verbs of beginning and continuation. Some of such verbs lost their intrinsic meaning and gained the function of modifiers: *fa-ʾaṣbaḥa yuqallibu kaffay-hi* 'then he came into the morning wringing his hands', i.e. 'then he got into a situation that he wrung his hands!'.

There exist two other types of circumstance clause. One describes a situation simultaneous with that of the main clause, but resultant from an anterior action; it is annexed with *wa-qad* plus perfect: *ma: la-na: ʾalla: nuqa:tila wa-qad ʾuxrijna: min diya:ri-na:* 'why should we not fight, since we have been driven out of our dwellings?'. The other describes a subsequent action intended at the time to which the main clause refers: *θumma nazaʿat θiya:ba-ha: taɣtasilu* 'then she took off her clothes in order to wash herself'.

The circumstance clause may also refer to the object: *ʾaxrajna: l-ʾasa:ra: wa-hum muṭriqu:na ruʾu:sa-hum* 'we brought out the prisoners while they bowed

their heads', *marartu bi-l-marʾati wa-hiya jaːlisatun* 'I passed by the woman while she was sitting'. A similar construction is found with verbs denoting 'make, let be, find, regard, call someone/something such and such'. They take an accusative object and an attendant predicative noun or a predicative verb referring to the object: *maː-δaː huwa l-laδiː yajʿalu-ki tabkiːna* 'what is it that makes you (f.) cry', *wajadnaː l-qawma raːjiʿiːna min-a š-šaʾmi* 'we found the people returning from Syria'.

Subordinate Clauses
Beside the attributive and predicative clauses, CA mainly distinguishes three kinds of subordinate clauses: (1) adverbial clauses annexed by a conjunction; (2) object, subject and other complement clauses which may be replaced by a verbal noun; (3) conditional clauses.

Adverbial Clauses
There are some conjunctions followed by a subordinate clause : the temporal conjunctions *lammaː* 'after', *ʾiδ* 'when, as', *ḥattaː* 'as long as, until', *bayna-maː* 'while', the final conjunctions *li-* (*li-ʾan*), *kay* (*li-kay*) 'in order that' and the relative *ḥayθu* 'where, inasmuch as'. In most cases a verbal clause follows: *yaḍiba llaːhu ʿalay-him ḥayθu lam yattaʿiδu* 'God was angry with them inasmuch as they did not accept warning'. In a final clause after *li-*, *kay* and *ḥattaː*, the verb comes in the subjunctive: *fa-ṣbiru ḥattaː yaḥkuma llaːhu bayna-kum* 'so take patience until God will decide between you!'.

Clauses Replacing a Verbal Noun
Clauses headed by *ʾan*, *ʾanna* or, sometimes, *maː* substitute verbal nouns in every possible position within the sentence and may be substituted by them. The particle *ʾan* introduces a verbal clause, *ʾanna* a nominal clause of which the subject noun immediately follows in the accusative: *balaɣa-niː ʾanna ʾabaː-ka qad maːta = balaɣa-niː mamaːtu ʾabiː-ka* '(the message) that thy father died has reached me' = '(the message of) the death of thy father has reached me'. An action which is expected is introduced by *ʾan* plus the subjunctive: *ʾuriːdu ʾan ʾaδhaba = ʾuriːdu δ-δahaːba* 'I want to leave'. In connection with prepositions these particles form conjunctions such as *li-ʾanna* 'because', *baʿda ʾan* or *baʿda-maː* 'after', *qabla ʾan* 'before', *ʾilaː ʾan* 'until', *ka-ʾanna* 'as though'. The latter introduces subordinate and independent clauses as well: *ka-ʾann-i ʾanδuru ʾilaː man laː ḥayaːʾa la-hu* 'I seem to look at one who has no shame' and *kaːna n-naːsu ka-ʾanna-hum laː ḥayaːʾa la-hum* 'the people behaved as if they were shameless'.

Conditional Sentences
The conditional sentence consists of two interdependent clauses asyndetically bound together. It has a characteristic structure in that the reference of the perfect verb to the past is neutralized for both of the two component clauses. Instead of the perfect the apocopate occurs with the same shift in time reference. The protasis

is marked by *ʾin* 'if' or *ʾiδa:* 'if, when, whenever' (after the latter the apocopate is excluded).

>   *ʾin taxallafta ʿan-i n-nafi:ri yaʿtabir bi-ka γayru-ka*
>> 'if you stay away from departing into the battle, others will follow your example',
>
>   *ʾinna-ma: l-muʾminu:na l-laδi:na ʾiδa: δukira lla:hu wajilat qulu:bu-hum*
>> 'The believers are just those who whenever God's name is mentioned are afraid in their hearts'.

The particle *law*, also used for wish sentences, introduces hypothetical conditions. Normally in both component clauses the perfect or its negative counterpart *lam yafʿal* is used. The apodosis is frequently introduced by *la-: law ka:na ʿinda-na: ma:lun la-ʾaʿṭayna:-ka* 'if we had money we would give you it', *law wajada-ni: na:ʾiman la-ma: ʾayqaδa-ni:* 'had he found me sleeping he would not have woken me'.

The above-mentioned structure of conditional sentences comprises all interdependent clauses which imply a conditional relationship, i.e. clauses introduced by indefinite pronouns like *mahma:, man* and adverbials like *mata:(-ma:), ʾayna(-ma:), hayθu-ma:* belong here, but also *kulla-ma:* 'whenever', and *ma:* 'as long as'. Some examples: *man daxala da:ra ʾabi: Sufya:na fa-huwa ʾa:minun* 'whoever enters Abu Sufyān's house will be protected', *wa-huwa maʿa-kum ʾayna-ma: kuntum* 'and he is with you wherever you are'.

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12 Sayhadic (Epigraphic South Arabian)

Leonid E. Kogan and Andrey V. Korotayev

A group of languages known from numerous inscriptions and graffiti from South Arabia is traditionally called Epigraphic South Arabian (ESA). A. F. L. Beeston proposed to denote them as Sayhadic, (*Ṣayhad* being the name used by medieval Islamic geographers for the desert now called Ramlat al-Sabʻatayn). It was along the edge of this desert that most of the earliest attestations of these languages were found.

This group is usually thought of as consisting of four languages: Sabean (Sab.), Qatabanian (Qat.), Hadramitic (Hadr.) and Minean. The latter is now also called Madhabic, as it was used not only by the Mineans but also by other communities of the Wadi Madhaːb (here traditionally abbreviated as Min.).

The earliest Sayhadic (Sayh.) documents can be dated to the beginning of the first millennium BCE. Some sherds with South Arabian letters have been found in Raybuːn (Ḥaḍramawt) in the layers which could be dated by radiocarbon to the twelfth century BCE. A considerable number of informative Sayhadic (Sabean and Minean) texts are attested for the eighth century BCE. In the seventh century BCE the number of Sabean inscriptions rapidly increases. In this period Sabean was used not only on the Sabean mainland (i.e. in the region of Maːrib), but also throughout the Ṣayhad region and even outside of it – in the Wadi Ḥaḍramawt, near the Red Sea coast and in Ethiopia.

The end of Sabean control over most Ṣayhad regions led to the growing use of the local Sayhadic languages (Minean, Qatabanian, Hadramitic) retaining some-times a certain Sabean influence for a while.

The Minean mainland was situated in the Wadi Madhaːb. However, Minean was also used in the other kingdoms of this wadi. The fact that the Mineans were heavily engaged in the incense trade with the Mediterranean world, led to the appearance of Minean texts in areas very distant from the Minean mainland itself, first of all in the territory of ancient Didaːn (modern al-ʻUlaː), but also even in Egypt and the island of Delos.

The Qatabanian mainland is the area of the wadis Bayḥaːn and Ḥariːb at the edge of the inner Ṣayhad desert. In the second half of the first millennium the area

under the control of the Qatabanian kings expanded significantly. As a result, the Qatabanian language area included the Southern Highlands adjacent to the Qatabanian mainland.

Hadramatic was used in the Wadi Ḥaḍramawt itself, as well as in the area of the Hadrami capital, Shabwah, outside the wadi. The Hadrami kingdom controlled the main frankincense producing area in Dhofar (present-day Oman), where an important Hadrami colony *S'mhrm* (*Kho:r Ro:ri:*) was established.

At the end of the first century BCE, most of the western part of South Arabia was unified within the "empire" of the kings of Saba' and dhu:-Rayda:n. Its creators were most likely the Himyarites (*Ḥmyrm* of the inscriptions), a tribe in the Southern Highlands which started playing a very important role in South Arabian political (and linguistic) history from that time. Sabean became the official language of the Himyarites and came into use in most of the Southern Highlands. There is no doubt, however, that Sabean was not a vernacular of the Himyarites.

The late second century BCE saw the end of the use of the Minean connected with the end of the Minean Kingdom. We can observe the formation in the former Minean linguistic domain (mainly in the area of Haram), of a specific dialect of Sabean with a rather weak influence of the Minean substratum and a stronger influence of the Arabic adstratum (see e.g. pp. 237–239). By the end of the second century CE the use of Qatabanian also ceased due to the destruction of the Qatabanian kingdom under the blows of the Himyarite, Sabean and Hadrami kingdoms. In the fourth century the Hadrami kingdom came to an end, conquered by the Himyarites, who brought their official language, Sabean, to this area too.

In the second half of the first century BCE, beside the monumental script of the inscriptions, another, "cursive" (or "minuscule"), script of everyday documents – private letters, contracts, magic texts etc. – developed. Discovered only in 1973, this script has been extremely difficult to decipher. Only about two dozen minuscule documents have been published and interpreted, out of an estimated number of more than 1,000. Almost all published minuscule texts are Sabean and date from the second–third centuries CE. Most of them come from the city of Nasha:n in the Wadi Madha:b.

In the late fourth century CE the monotheistic period started. Because the pagan practice of dedications to the temples ceased, the available Sayhadic documentation from the fifth–sixth centuries is considerably reduced. The lexicon of monotheistic (mainly Judaic and Christian) texts exhibit foreign influences, first of all Hebrew/Aramaic and Greek. The most recent Sayhadic (Sabean) documents were produced in the second half of the sixth century, the last dated Sabean inscription (C 325) being dated to the year 669 of the Himyarite era (559 or 554 CE).

By now, a widely acknowledged linguistic periodization has been worked out, for Sabean only. Its history may be subdivided into archaic (the first millennium BCE), middle (first century BCE – late fourth century CE) and late or monotheistic – (up to the late sixth century CE) periods.

Since, on the one hand, Sabean is by far the best-documented among Sayhadic languages and, on the other, they are all relatively close to each other, we thought

it convenient to take Sabean as the base of our description. Accordingly, linguistic phenomena quoted below without any special mark belong to Sabean monumental texts. Otherwise they are marked as Min., Qat., Hadr. or minuscule.

Where sources of quotations are indicated, they are given according to the abbreviations in Beeston et al. 1982.

Phonology

Consonants
Since we deal here with dead languages without oral tradition, it is practically impossible to reconstruct the phonetic value of Sayhadic graphemes. Accordingly, we shall content ourselves with a conventional table of Sayhadic consonants based on their Semitic correspondences:

	b		w	m
f				
t	d	ṭ	n	l r
θ	δ	θ̣		
s^3	z	ṣ		
s^2		ḍ		
			y	
s^1				
k	g	ḳ		
x	γ			
ḥ	ʿ			
h	ʾ			

One of the most acute problems of Sayhadic phonology is that of non-emphatic unvoiced sibilants, transcribed here as s^1, s^2 and s^3. Traditional Sabeology was deeply influenced by Arabic studies and believed that Sayhadic was especially close to Classical Arabic. Accordingly, these graphemes received the phonetic value observed in the corresponding Arabic cognates. Thus, s^1lm 'peace' was transcribed as *slm* because of Arabic *sala:m-* and $s^2ʿb$ 'tribe, commune' as *šʿb* because of Arabic *šaʿb-*. Since Arabic has no third unvoiced sibilant, s^3 was conventionally transcribed *ś*; most scholars thought it to have had a phonetic value close to *š* (our s^2), but even a lateralized articulation was sometimes proposed.

Nowadays, most scholars think that there is no special relationship between Sayhadic and North Arabian dialects. At the same time, the system described above obviously contradicts the data of those languages which do have three unvoiced sibilants, namely Hebrew and Modern South Arabian (MSA):

Sayhadic	Hebrew	MSA
s^1	š	š
s^2	ś	ś
s^3	s	s

Examples: Sayh. *dbs¹* 'honey' ~ Heb. *dəbaš*, Jibba:li *dɛbš*; Sayh. *s²bᶜ* 'abundant, abundantly' ~ Heb., Mehri *śbᶜ* 'to be satiated'; Sayh. *ʾs³r* 'to be bound with an obligation' ~ Hebrew *ʾsr* 'to tie', Jibba:li *ʾsr* 'to hobble an animal'. Though some sporadic exceptions should not be neglected (see, e.g., Sayh. *ᶜs¹y* 'to do, make', which is obviously to be compared with Hebrew *ᶜśh*), in the great majority of cases these correspondences are valid, and this is the notation that we shall follow in our chapter.

Vowels

Since the South Arabian system of writing is purely consonantal, we cannot draw any direct information about Sayhadic vowels. The existence of an *u* (most likely long) may be proved by Sabean variant spellings of the pl. 3 pronominal suffix *-hmw/-hm* (see p. 224). It is likely that beside the six vowels typical for many of Old Semitic languages (*a, i, u, a:, i:, u:*), there existed also *e:* and *o:* resulting from the contraction of *-ay* and *-aw-*. It may be evidenced by such pairs of variant spellings (belonging to the same period and often even to the same text) as *byn/bn* 'between' or *θwr/θr* 'bull', in which the latter represent the historical spelling of the actual [*be:n* (< *bayn-*), *θo:r-* (< *θawr-*)].

Peculiar Phonetic Phenomena

Sabean *h* corresponds to *s¹* of other Sayhadic languages in the prefix of the causative verbal theme and in pronominal morphemes of the 3rd person (*-hw* versus *-s¹w* etc.).

A comparatively frequent merger of *θ* and *ṣ* is attested, e.g. *ḳṣ* 'summer season' beside (the etymologically correct) *ḳyθ*; *θlm* 'statue' versus *ṣlm* etc. (However, it may be explained partly by a mere confusion of letters for *ṣ* and *θ*.) In minuscule documents etymological *θ* is reflected as *ḍ*, e.g. *ḍbyt* 'young she-camel > sack made of its hide' (~ monumental *θbyt*), *mfḍr* 'a measure of capacity' (~ monumental *mfθr*). It seems that minuscule script had no letter for *θ* at all.

s³ is often reflected as *s¹* in late Sabean, e.g. *ms¹nd* 'inscription' instead of *ms³nd*, *s¹n* 'up to, next to, by' instead of *s³n* etc. This process is also attested for the Haramic dialect of middle Sabean (e.g. *ʾks¹wt* 'clothes' vs. standard Sabean *ks³wy* 'clothing').

n is sporadically assimilated to the following consonant, e.g. *yδrn* (beside *ynδrn*) – impf. from *nδr* 'to atone'; *mḍḥ* (beside *mnḍḥ*) 'tutelary deity', *ʾfs¹* (beside *ʾnfs¹*) – broken plural of *nfs¹* 'soul'.

Sayhadic *θ* is often reflected as *s³* in Hadramitic texts (especially from Wadi Ḥaḍramawt itself), e.g. *s²ls³* 'three' (~ Sab. *s²lθ*).

Some cases of Hadramitic *θ* corresponding to Sayhadic *s³* are also attested (e.g. *mθnd* 'inscription' vs. Sayh. *ms³nd* or *kθʾ* 'to command' versus Qat. *ks³ʾ*).

Metathesis is a comparatively frequent phenomenon in Sayhadic, e.g. variant forms *ʾwld/ʾlwd* and *ʾwyn/ʾywn*, both broken plurals from *wld* 'child' and *wyn* 'vineyard' respectively. See further *ḳlmt/kmlt* 'kind of insects', Min. *s²mʾl/s²ʾml* 'northwards' etc.

An interesting phenomenon is the so-called "parasitic" *h*, i.e. non-etymological glide *h* appearing in a number of morphemes (mainly affixes and particles). In Minean it is typical of the affixes of external plural (masculine and feminine), e.g. *ymhn* 'days' (pl. m. abs. < *ywm* (*ym*) 'day'), *ʿhrhn* < *ʿhr* 'noble', *ʾnθht-n* (pl. f. determined < *ʾnθt* 'woman'), *ʿδbht-y* 'reparations' (pl. f. const. < *ʿδbt*) etc.; it is often found at the end of nouns in singular and broken plural in *status constructus* (see p. 227). Though it remains uncertain under what conditions this *h* appears, it is thought that it was caused by a peculiar character of the stress (possibly even pitch). As for the examples attested outside of Minean, see *bhʾ* 'to enter' (cf Semitic *bwʾ* 'to come, to enter'); *mhn* (beside *mn*) 'who, which' (relative), which may be compared with Arabic dialectal *mi:n* etc.

Morphology

Pronouns

Personal Pronouns (Independent)
Independent personal pronouns of the 1st person are only doubtfully attested in the texts (sg. 1 *ʾn* in *bnhw ʾn, bnhw ʾn* 'I am his son, I am his son' [Gl 1782]; *brʾk-h ʾn* 'it was myself who built it' [J2353,3]; pl. 1 (?) in *s¹ṭrw δn ms³ndn ʾn ʾbrh* 'we, Abraha, wrote this inscription' [C541,3–4]).

Forms of the 2nd person are extremely rare in monumental inscriptions (perhaps *ʾt* in *Rḥmnn rḥmk mrʾ ʾt* 'O Raḥma:n! You are merciful; you are the lord!' [Ry508,11]), but they are frequent in minuscule documents. Forms attested in published texts are as follows: sg. m. *ʾnt* (variant *ʾt*): *w-ʾt s³xln l-Frʿn nḵt-hw* 'and you, take care about *Frʿn*, his she-camel' [A-40-4,3–5]; pl. m. *ʾntmw; w-ʾntmw f-l ts¹tʿddnn l-hmw* 'and you (pl.), you should verify the calculations for them' [YM11732,3].

Forms of the 3rd person are identical with the nominative forms of remote deictics: *w-tʾwlw b-wfym hwʾ w-kl s²wʿ-hmw* 'and they returned in safety, he (himself) and all their companions' [J631,13–14]; *w-hmw f-nθrw mwʿd ʾgrn* 'as for them, they remembered the promise of the Najranites' [J577,10].

A number of 2nd person pronominal enclitics are attested in minuscule documents: sg. *-k*, pl. *-kmw* (see below; *-k* also in monumental Qatabanian [J 367; 2439,1] *ʿbd-k* 'your /sg./ servant', *ʾδn-k* 'your /sg./ authority').

The suffix *-n* in a number of theophoric names may be regarded as the object enclitic of 1st person singular, e.g. *Ḥm-n-ns¹r*, which probably means 'Protect-me-Nasr' (imv. sg.) or pf. sg. 3m. from *ḥmy* 'to protect' + *-n*, see p. 235).

Attached to nouns, enclitic pronouns denote possession *ʾxt-hn* 'their (f.) sisters', minuscule *bt-k* 'your (sg.) house' etc. Attached to verbal forms, enclitic pronouns denote the direct object (*mtʿ-hmw* 'he has saved them', Min. *l-ys¹sfd-s¹ tθft* 'let the judgment bind him' [R4728,1]), but they are also widely used for the indirect object: *δbḥ-hw δbḥm* 'he offered him [i.e. the god] a sacrifice' [e.g. C461,2], *xmr-*

Table 12.1   Attested forms of pronominal enclitics

		Singular	Dual	Plural
Sab.	m.	-hw, -h	-hmy	-hmw, -hm
	f.	-h, -hw		-hn
Min.	m.	-s¹, -s¹w	-s¹mn	-s¹m
	f.	-s¹		-s¹n
Qat.	m.	-s¹, -s¹ww	-s¹my	-s¹m
	f.	-s¹, -s¹yw		
Hadr.	m.	-s¹, -s¹ww	-s¹mn, -s¹myn, -s¹my	-s¹m
	f.	-θ (-s³), -θyw (-s³yw)	-s¹my	

hmw δnmm 'he [a deity] granted them rain' [J563,11–12].

Pronominal enclitics are extensively employed, with prepositions: *b-ᶜm-hmw* 'with them,' Min. *b-ᶜbr-s¹mn* 'regarding them both'; minuscule *l-k* 'for you', *ᶜbrn-kmw* 'to you (pl.)'.

Relative Particles

Table 12.2   Attested forms of relative particles

		Singular	Dual	Plural
Sab.	m.	δ-	δy-	ʾlw, ʾly, ʾlht, ʾl
	f.	δt, t-	δty	ʾlt
Min.	m.	δ-	δy-	ʾhl-, hl-, δl-
	f.	δt	δtyn	
Qat.	m.	δ(m)-, δw-	δw-, δn	δtw, ʾwlw, ʾl (?)
	f.	δt(m)-		δtw
Hadr.	m.	δ-		
	f.	δt		

These particles are used to introduce relative clauses (see p. 239) and in peri-phrastic genitive constructions: *bkrtn δt δhbn* 'the bronze young she-camel' [C579,4–5]; *ʾmθln ʾly δhbn* 'the bronze images' [J558,2]; *fnwt-hw δt ts¹ qyn-hw* 'his canal, which irrigates it [the palm grove]' [C657,3]. They may agree in gender and number with the antecedent, but *δ-* often becomes generalized: *ʾbdtm δ-kwnw byn xms¹nhn* 'irregulars who were between the two armies' [J633,7–8], *ṣlmtn ... δ-s²ftt mrʾhmw* 'the statuette ... which she promised to their lord' [J706,3–4].

Of interest are some nouns with *δ-* which are used without an antecedent like *δ-ʾᶜδr* 'distant relatives', *δ-gbʾn* 'document of property transfer', *δ-ʾmnt* 'person or thing under protection' (cf. Geʿez *za-manfas* 'spiritual', *za-lamṣ* leprous' etc).

Indefinite Pronouns
mn (δ ...) 'somebody', someone', *mhn* 'something', *ʾhnn (ʾhnm)* 'whatever, whenever, wherever'; *w-mn-mw ys²tr-hw* 'whoever destroys it ...' [R4091,1–3] (with enclitic *-mw*, see p. 237).

Nouns

Nominal Patterns
Examples of primary nouns:

monoradical: *f* 'voice, authority';
biradical: *s²h* 'sheep', *gw* 'community, group', *ʾb* 'father;
triradical: *rgl* 'foot', *bʾr* 'well', *s²ms¹* 'sun';
from "geminated" roots: *ʿm* 'uncle' (pl. *ʾʿmm*), *ʿr* 'mountain, hill-fortress' (pl. *ʾʿrr*);
from "hollow" roots: *ywm/ym* 'day' (pl. *ʾywm*), *θwr/θr* 'bull' (pl. *ʾθwr*), *byt/bt* (pl. *ʾbyt*) 'house', *kyθ kṣ* 'summer season';
quadriradical (not very frequent): *ʾrby* 'locusts', *ʿglm-t* 'breakwater', *kwkb* 'star', *glgl-n* 'sesame' (minuscule) and some others.

The following types of derived nouns are recognizable (*ṣḥf* 'to write' is the sample root):
ṣḥf: *s²rḥ* 'safety, deliverance' < *s²rḥ* 'to deliver'; *δbḥ* 'victim' < *δbḥ* 'to slay' etc. It is often augmented with -*t*: *nfl-t* 'accident' < *nfl* 'to fall in battle', *blw-t* 'funerary monument' < *blw* 'to construct a tomb'. In nouns derived from roots with the first radical *w* this consonant may be dropped, and -*t* is usually added: *zʿ* 'control' < **wzʿ*, cf. *wzʿ* 'title of commander', *kh/kh-t* 'order, command' < *wkh* 'to command'; *hb-t* 'gift' < *whb* 'to give, to grant'.
ṣ-y-ḥf: 'seal' in *xytmn* 'two seals' (minuscule); *ṣh-y-f* – attested in *ṣlym* 'statuette', probably a diminutive [*ḳutayl-*] from *ṣlm* 'statue'.
t-ṣḥf(-t): some verbal nouns (presumably from the themes **ṣaḥḥafa* and **taṣaḥḥafa*: *t-ḥrm* 'ritual prohibition' < *ḥrm* 'to prohibit'; *t-θwb* 'completion of a work' < *θwb* 'to complete'; *t-ḳdm* 'attack' < *tḳdm* 'to attack'; *t-nxy(-t)* 'confession' < *t-nxy* 'to confess'; cf. also some concrete nouns like *t-bḳl* (*t-bḳl-t*) 'plantation' < *bḳl* 'to lay out ...'; *tʾnθ* 'women', Qat. *tḥmy* 'wall'.
n-ṣḥf: *n-ḥkl* 'specially'.
ṣḥf-ʾ: *δfrʾ-n* 'ill-smelling plants'.
m-ṣḥf(-t): denotes a large range of meanings (place, time , instrument, etc.) *m-s¹ʾl* 'oracle' < *s¹ʾl* 'to ask'; *m-ṣdḳ* 'documentary proof of ownership' < *ṣdḳ* 'to claim proprietorial rights over something'; *m-s¹ḳy* 'irrigation' < *s¹ḳy* 'to irrigate'; *m-δbḥ-t* 'altar' < *δbḥ* 'to slay'. Active and passive participles of various themes, *m-nṣf* 'servant, temple personnel' < *nṣf* 'to perform rites' etc.
ṣḥf-n: *xmṭ-n* 'disorder', *xmr-n* 'concession, gift', Min. *rgl-n* 'time(s) [multiplied]'. *ṣḥf-y(t)* – (?) *ghmy* 'last part of the night', *grby* 'worker in stone', Qat. *ywm-y-t* 'date'.

Gender
The two genders are masculine and feminine. The latter is usually unmarked. The most common feminine ending is -*t*. It is used for deriving nouns denoting female

beings from the masculine: *ʾbl-t* 'she-camel' < *ʾbl* 'camel'; *ʾl-t* 'goddess' < *ʾl* 'god'; *bn-t* 'daughter' < *bn* 'son' etc. A number of feminine nouns have no -*t*: *yd* 'hand', *ʿyn* 'eye', *hgr* 'city' etc. A number of nouns without -*t* are feminine since they may be applied to females only (*ḥyḍ* 'menstruating woman', *nfsʾ* 'woman in childbed'). For the masculine with the ending -*t* see *xlf-t* 'viceroy' which may be a loanword from Arabic *xali:fat-*. Grammatical gender is very stable and only very few nouns are suspected to be attested in both genders: *nxl* 'palm grove'; *nfsʾ* 'soul' (attested mostly as f., but apparently m. in *l-ymtn nfsʾ-hw* 'let him die' [Ra42,13]). Note that the word *frsʾ* certainly denoted both 'horse' and 'mare' (*ymtn frsʾ-hw* 'his horse would die' [J649,21–22]/*frsʾm δt δhbm* 'a mare of bronze' [J752,7–8), thus belonging to the same group. In Qatabanian *ywm* 'day' and *ʿm* 'year' may be used as feminine (*ṯt.* (f.!) *ywmm* 'one day' [e.g. R3854,6–7], *ʿmm s²lθtm* 'third year' [Bron/MB8,2]).

State

Three states of noun are attested in Sayhadic: absolute, construct and determinate.

   1   A noun which is neither the possessed in the genitive construction nor determined by the article is in the absolute state. It may have no special marker (*ʾsʾd* 'soldiers'), but much more often (especially in Sabean) it is marked by -*m*, "mimation" (*ṣlm-m* 'a statue').

The mimation is unpredictable in many cases, so that only some trends of its use may be detected. Thus, it is usually lacking in words denoting the seasons of the year: *nʾd ʾθmr-m ... bḳyθ w-dθʾ w-ṣrb* (but!) *w-mly-m* 'abundance of crops in summer, and spring, and autumn and winter' [C174,3]; contrast *nʾd ḳyθ-m w-ṣrb-m* abundance of summer and autumn harvests' [J651,48].

Numerous adverbial expressions derived from nouns very often exhibit -*m* (e.g. *dwm-m* 'forever'; *δr-m* 'to saturation', *s²bʿ-m* 'abundantly' etc.).

   2   A noun which is either the possessed of the genitive construction or is followed by a pronominal suffix appears in its bare form, the construct state: *ʾbʿl byt-hmw* 'the lords of their house' [e.g. R3991,21–22]. Qat. *rdʾ s²msʾ-sʾ* 'the help of his sun-goddess' [R3856,4], Hadr. *wld-θ* 'her children' [e.g. Rb645,3]. Minean may have a special marker of the possessed, namely -*h*: *b-ʾmr-h Nkrḥ* 'by the order of [the deity] *Nkrḥ*' [MAFRAY/Darb aṣ-Ṣabil,5], *b-ʾwθn-h mḥrm-h ḍlʿn* '(with)in the boundary stones of the sacred enclave of (= for) the ill people' [lines 6–7]. In such cases the possessed itself is in the genitival position as above (cf. in the same text *ykwn ʾwθn* (without -*h*!) *mḥrmn* 'the boundary stones of the sacred enclave are established' [lines 2–3]). Nouns in the construct state are also found before relative clauses (see p. 240). Unlike Arabic, more than one possessed can precede a possessor, e.g. *xl w-mḳm Tʾlb* 'the strength and the power of *Tʾlb*' [C2,8].

   3   In the definite state the marker of definiteness for singular nouns, broken plurals and feminine external plurals is a postpositive article -*n* (in Hadramitic mainly -*hn*): *hgr-n* 'the city', Hadr. *ʿḳbt-hn* 'the fortification'. Nouns in the definite state are used independently (*b-wθn-n* 'at the border stone'), after deictics

(see p. 230), before relative clauses introduced by relative particles (see p. 240), before proper names (Hadr. *s'r-hn 'rmw* 'the valley *'rmw*' [Ingrams 1,2]). Note that nominal subject is usually definite while nominal predicate is in the absolute state.

Number
Sayhadic has three numbers: singular, dual and plural (external and internal or broken).

Forms of the Dual
Absolute state:

> Sab. *-n (-yn)*: (θny) *'s'n, 's'yn* 'two men'
> Min. *-ny*: *ṣḥftny* 'two curtain walls'
> Qat. *-myw*: *ywmmyw* 'two days'
> Hadr. *-nyw*: *fhd-nyw* 'two cheetahs'

Construct state:

> Sab. *-y*: *mlky S'b'* 'two kings of Saba''
> Min. *-y*: *rs²wy 'lhn* 'two priests of the deity'
> Qat. *-w, -y, -h* (?): *mlkw Ktbn* 'two kings of Qataba:n'; *bḥty blkm* 'two votive
>   phalli of limestone', (?) *nfs'h-s'yw* 'two funerary monuments of hers'
> Hadr. *-y, -hy*: *ktby mlkn* 'two camel-riders of the king', *gs'mhy gn' Klt* 'two
>   constructions of the wall of *Klt*'

-y may disappear when pronominal suffixes are added: *bn-hw* X *w-*Y 'his two sons X and Y', Hadr. *'yn-s'ww* 'his two eyes'.

Determinate state:

> Sab. *-nhn, -ynn, -nn, -ynhn, -ynhyn*: *hgrnhn* 'the two cities', *ṣlmynn* 'the two
>   statues', *bytnn* 'the two houses', *s²'bynhn, s²'bynhyn* 'the two commu-
>   nities'
> Min. *-nhn, -nyhn*: *'ynnhn* 'the two eyes', *s²w'nyhn* 'the two (temple) servitors'
> Qat. *-nyhn*: *mkmnyhn* 'the two meetings'
> Hadr. *-yhn, -yn*: *hndyyhn* 'the two Indians', *'rbytyn* 'the two Arab women'

The External Plural
The masculine external plural is very rare in Sayhadic. In Sabean more or less certain cases are restricted to the construct state, e.g. *bn-w/bn-y* 'sons of ...', *'x-y* 'brothers of ...', *xrf-y* 'years [in which] ...'; possibly also *ḥwr-w* 'citizens of ...', *'hr-w* 'nobles of ...' (the last two may be regarded, alternatively, as broken plurals). Forms of the absolute and determinate state are less certain, partly because

they often formally coincide with the respective forms of the dual (e.g. *bn-n* 'sons', *ʾm-n* 'cubits' < sg. *ʾmt*, *ʾrbʿtn mʾnhn* 'the four hundred' < sg. *mʾt*).

Masculine external plural is more common in Minean: absolute *ywm-hn* 'days', *xrf-hn* 'the years'; construct *ʾb-hw/ʾb-hy* 'fathers of ...', *xlf-hy* 'gates of ...'. Note Qat. *bn-w/bn-y* 'sons of ...', *ʾlh-w/ʾlh-y* 'gods of ...', *ʾx-y/ʾx-h* 'brothers of ...', Hadr. *ʾlh-y* 'gods of ...'.

The feminine external plural ending in Sabean attested also in Qatabanian is *-t* (graphically indistinguishable from the singular and presumably differentiated by the quantity of the vowel, *-a:t-* vs. *-at-* or *-t-*):

> *ʾnθt* 'woman' – pl. *ʾnθt*, *tḳdm* 'attack' – pl. *tḳdmt* etc.
> -*ht* (abs. and det.) in Minean and Hadramitic: *ṣrḥht-m* 'upper parts of build-
>   ings', *bḥ-ht-m* 'votive phalli', *ʾnθ-ht-n* 'the women'
> -*hty* (const.) in Minean Qatabanian and Hadramitic: *ʾrḍ-hty* 'lands of ...'

Broken Plurals

The following forms of the broken plurals are attested:

ṣhf < *ṣhf*, *ṣhft* (the first case homographic with the singular, but may have had a different vocalism, e.g. **ṣV̌ḥaf-* or **ṣiḥa:f-*: *ʾhl* < **ʾhl* 'kind of cistern', *ʾlm* < *ʾlm* 'feast'; *fnw* < *fnwt* 'secondary canal'. Note *ʾmm*, a plural of *ʾmt* 'cubit', which certainly points to an apophonic change like [**ʾammatu ~ *ʾamamu*].

ṣhf-w: *ḥwr-w* (< *ḥwr* 'citizens' (coll.), *ʿhr-w* 'nobles' (cf. Qat. sg. *ʿhr*); note that at least some of these forms may be considered external plurals.

ṣ-w-ḥf(-t): *ʾ-w-mr* 'signal stations'; Qat. *x-w-ll-t* 'orders'; *ṣ-y-ḥf(-t)*: *x-y-tm-t* 'plots of cultivated land'; *ṣhf-n*: *ḥyr-n* < *ḥyr-t/ḥr-t* 'camp'; *ṣḥ-w-f*: *δk-w-r* < *δkr* 'male'; often in Qat.: *xd-w-r* < *xdr* 'place of business', *xr-w-f* < *xrf* 'year'; *ṣḥ-y-f*: *xm-y-sʾ* < *xmsʾ* 'main army force ; *xṭ-y-ʾ* < *xtʾ* 'sin'; *xr-y-f* < *xrf* 'year'; *ṣḥ-w-f-t*: *ʾd-w-m-t* 'groups of serfs, dependent persons'; *ṣḥ-y-f-t*: *xr-y-f-t* 'autumn seasons', *ʾd-y-m-t* 'groups of dependent persons'.

ʾ-ṣhf: the most widespread pattern of broken plurals; it is probable that several patterns are behind this consonantal form (e.g. **ʾaṣha:f-*, *ʾaṣhuf-*, *ʾaṣhu:f-*, *ʾaṣa:hif* etc.). Examples: *ʾ-hgr* < *hgr* 'city'; *ʾ-mlk* < *mlk* 'king'; *ʾnmr* < *nmr* 'leopard'.

ʾ-ṣhf-t: *sʾbʾt* < *ʾ-sʾbʾ-t* 'military expedition', *ʾ-xrf-t* < *xrf* 'year'; *ʾ-ṣhf-w*: *ʾ-δkr-w* < *δkr* 'male'.

mṣhf: most often from *mṣhft*, e.g. *mybb* < *mybt* 'defensive work', *mṣdk* < *mṣdkt* 'documentary proof'; also from *mṣhf*: *msʾbʾ* < *msʾbʾ* 'way, road'; *mṣhf-t*: from *mṣhf* – *mhfd-t* < *mhfḍ* 'tower', *mkbr-t* < *mkbr* 'grave, tomb'.

External and internal plural markers may combine as in *ʾ-ḥrr-t* 'freeborn wom-en' < **ḥr-t* (cf. m. *ʾhrr* < *ḥr*), (?) *ʾ-mlk-t* 'queens' < *mlk-t* 'queen'. A noun often has two or more broken plurals. Thus, about seven (!) forms of plural of *xrf* 'year' are attested; many of them are quoted above. A few nouns are thought to have sup-pletive plurals (*ʾdm* < *ʿbd* 'client', possibly *ʾsʾd* < *ʾsʾ/ʾys* 'man'). Some "plural of plurals" are probably attested, in *ʿbd* 'client' ~ *ʾdm* 'clients' ~ *ʾd-y-m-t/*

ʾd-w-m-t 'groups of clients'.

Case

The Sayhadic case system remains practically unknown since in most cases the writing system did not mark case endings. We are strongly inclined to think that -*w* of the Sabean external plural construct *bnw* 'sons' is in most cases a nominative marker, while -*y* in *bny* (not followed by a pronominal suffix) marks the oblique case: *bnw Grt ... hqnyw* 'the sons of (the clan) *Grt* ... have dedicated' [J561,1–2] vs. (in the same inscription): *wfy ʾdm-hw bny Grt* 'the well-being of his servants, the sons of (the clan) *Grt*' [lines 14–15]. Some exceptions are attested (though still less than ten percent), but most of these exceptions appear either to come from peripheral areas or to be relatively late (since the third century CE only). The same distribution might be supposed with respect to Qatabanian *ʾlhw/ʾlhy* (const.) 'gods of'.

Adjectives

The most frequent adjectival pattern is *ṣhf*, e.g. *rḥḳ* 'far', *ṭhr* 'pure', *fsᵗ²* 'contagious, epidemic'. *Nisbas* in -*y*, derived from common nouns, toponyms and ethnonyms, are also common, *ḳyl-y* 'that belonging to *ḳayls* (heads of tribes)' < *ḳyl*, *mʿrb-y* 'western' < *mʿrb* 'west', *s¹bʾ-y* 'Sabean' < *s¹bʾ* 'Saba' ' The singular feminine marker -*t* is attested in adjectives mostly in *nisbes*, e.g. *s²ms¹-hw ms²rḳy-t-n* 'his sun-goddess, the eastern one' [C572,2–3], but see also *ḳdm-t* in *b-ʿ𝛿𝜃t-hmw ḳdm-t-n* 'according to their previous demand' [C541,94].

Both external and broken masculine plurals are attested for adjectives, thus *ʾwld-m hnʾ-m* [e.g. C352,10] beside *ʾwld-m hnʾ-n* [e.g. F88,4] 'healthy children'. Broken plurals from *nisbas* are very widespread; most of them employ triconsonantal roots even when the adjective has more than three consonants, e.g. *ʾḥmr* 'Himyarites' < *ḥmyry*; *ʾṣrḥ* 'Sirwahites' < *ṣrwḥy* and even *ʾʾ𝛿n* 'Maʾdhinites' < *mʾ𝛿ny*. Feminine external plural in -*t* is probably attested in *hnʾ-t bn ʾθrbhmw* 'pleasing [crops] from their lands' [R3966,9].

Forms of gradation are not found, with a possible exception of Minean *ʾ-ṣnʿ* 'the strongest' in *kwnt 𝛿t gzytn ʾṣnʿ kl gz[...]* 'this decree is the strongest among all the de[crees]' [R3307,3]. For this pattern cf. also *ʾ-ʾxr* 'other' > 'another time' and *ʾ-ḳdm* 'previous' (beside *ḳdm*).

Deictics

There are two sets of forms for remote demonstratives. The first series is employed when the noun is syntactically in the nominative.

In non-nominative position a -*t* ending appears, thus *hgbʾy l-ʾlmḳh hy-t ʾrḍn* 'they (du.) handed over to [the god] *ʾlmḳh* that land' [C376,10–11]; *bn hw-t brθn* 'from that campaign' [J636,38-39]; Qat. *b-s¹my-t mḳmnyhn* 'at those two meetings' [R3566,10].

Demonstratives precede the nouns they qualify (usually definite). *hʾ θyln* 'that lava flow' [C323,3]; Qat. *𝛿tn ʾs¹ṭrn* 'these inscriptions' [e.g. R3856,5]. They may

Table 12.3   Nearer demonstratives

		Singular	Dual	Plural
Sab.	m.	δn	ʾln, δyn	ʾln
	f.	δt		ʾlt
Min.	m.	δn		ʾhl, ʾhlt, ʾhlty
	f.	δt		
Qat.	m.	δn		δtn, δtw
	f.	δt		

Table 12.4   Remote demonstratives

		Singular	Dual	Plural
Sab.	m.	hʾ, hwʾ	hmy	hmw
	f.	hʾ, hyʾ	hmy	hn
Qat.	m.	s¹w	s¹my	s¹m
	f.	s¹y		
Min.	m.	s¹w-t (? oblique)		s¹m
	f.			s¹mt (?)

be the subjects in nominal clauses (the nominal predicate usually in the absolute state): *ʾlt ʾhgrm w-ʾbḍ ͨm gnʾ ... Krbʾl* 'these are the towns and territories which *Krbʾl* walled' [R3946,1]; Qat. *w-δn ʾbyt wʾrḍt ḳny w- ͨs¹y w-s²ʾm Yδmrmlk* 'and these are houses and lands which *Yδmrmlk* has acquired, and took into possession and bought' [R3858,5–6].

Numerals

Cardinals
   Sayhadic cardinal numerals from one to ten exhibit two forms, namely with *-t* ending and without it; in the list quoted below the former is given first.

   1   *ʾḥd/ʾḥt, ʾḥdy*. In Qatabanian *ṭd/ṭt* and * ͨs¹tn-m*, in Minean * ͨs¹t* (beside *ʾḥd*; treated as 11 by some scholars).

   2   *θny/θnty, θty, θt*; Qat. *θnw*. Note also *klʾy (kly)*, f. *klʾty*, e.g. *kly tʾdmynhn* 'the two rebellions' (*tʾdm* in the dual det.).

   3   *s²lθ/s²lθt* (archaic Sab., Qat., f. *s²hlθt* in Min.); the rest of Sab. *θlθ/θlθt*; Hadr. *s²lθ (s²ls³)/s²lθt (s²ls³t)*.

   4   *ʾrbͨ/ʾrbͨt*.

   5   *xms¹/xms¹t*.

   6   *s¹dθ/s¹dθt* (archaic Sab., Min. and Qat.; *s¹θ/s¹θt* the rest of Sab.).

   7   *s¹bͨ/s¹bͨt*.

   8   *θmny/θmnyt* (archaic Sab.); *θmn/θmnt, θmt* (the rest of Sab.).

   9   *ts¹ͨ/ts¹ͨt*.

10   *ˤs²r/ˤs²rt.*
11   *ʾḥd ˤs²r.*
12   *θny ˤs²r* etc.

Note that *ˤs²r* in these forms is invariable and does not depend on the gender of the enumerate (e.g. *ʾrbˤ-ˤs²r* and *ʾrbˤt-ˤs²r*).

Twenty is *ˤs²ry*, the rest of the decades are formed by adding *-y* to the respective form in the first decade (*θlθy* '30', *xms¹y* '50') etc. In Minean forms endings in *-hy* are attested, thus *ʾrbˤhy* '40'; cf. also Hadr. *ts¹ˤhy* '90'. The order of elements in compound numerals (each preceded by *w-*) ascends from units to thousands (see examples below).

Forms with *-t* occur with masculine nouns, forms with zero ending with feminine ones (exceptions are 1, 2, 11 and 12). The noun counted, always in the plural (except for 1 and 2), appears after the numeral. As a rule, numerals up to 100 are in the construct state, the noun in the absolute with mimation: *θlθt ʾwrxm* 'three months', *θlθ ʾbrkm* 'three rainy seasons' < *brk* (f.), Qat. *ṭd ˤs²r ʾnxlm* 'eleven palm groves'; the noun without *-m*: Min. *xms¹ ʾmh* 'five cubits' (sg. *ʾmt*), Hadr. *θmnwt ʾfhd* 'eight cheetahs'. If the noun is definite (rarely found) the numeral also has a *-n*: *θlθt-n ʾṣlm-n* 'the three statues'. '100' is *mʾt* (pl. *mʾ*, *mʾn*, *mʾt*, *mʾnhn*; Min. *mʾt*, *mʾh*, Hadr. *mʾh*, Qat. *mʾt*). '1,000' is *ʾlf* (pl. *ʾʾlf*). In most cases hundreds and thousands are in the absolute state with mimation, so that the numeral should not be regarded as the possessed, but rather as an apposition: *xms¹ mʾtm w-θlθt ʾʾlfm ʾs¹dm* '3,500 men' [J665,29–30]. Note an opposite case (the hundred in the construct state) in *xms¹ w-ˤs²ry wmʾt ʾfrs¹m* '125 horsemen' [J665,30–31].

Ordinals
The syntax of ordinals, which in most cases look like the corresponding cardinals (i.e. *s²lθ/-t*, *xms¹/-t* etc.; 'first' – *kdm* – is an exception), is in all respects identical to that of adjectives. However, they may precede the noun which they qualify (especially if it is in the absolute state), cf. *θnym/θlθm ywmm* 'second/third day' versus *xms¹n rbˤn* 'the fourth district' [C435,3–4], *xrf Wddʾl ... s¹dθn* 'the sixth year of [the eponym] *Wddʾl*' [NNAG11,11–12].

Fractions and Distributives
'Half' is probably attested as *fkḥ* in *fkḥm w-θlθ blṭm δ-rḍym* 'three and a half' *blṭ*-coins of full weight' [G11361,2]. Other fractions are used extensively. Their form is *ṣḥf* from the consonantal root of the respective cardinal, e.g. *rbˤ* 'one-quarter', *s¹bˤ* 'one-seventh' etc. (note Min. *s²lwθ* in *ˤd s²lwθ hgrn* 'up to one-third of the city' (?) [R2774,2]). The plural of this pattern is *ʾṣḥf*; it seems that fractions may agree both as masculine and feminine: contrast *ʾḥt ˤs²r* 'one-tenth' [R4995,l]and (Qat.) *s²lθt ʾxms¹m* 'three fifths' [J343A,3–4]. Of interest is Sab. *mxms¹t* 'one-fifth (pl.)'. An interesting way of expressing fractions consists in using *ʾṣbˤ* 'finger', e.g. *ʾṣbˤm bn θmny ʾṣbˤ* 'one finger from eight fingers', i.e. 'one-eighth' [C640,2].

Distributives are expressed by the repetition of the cardinals, e g. (Qat.) *ʿs²r ʿs²r xbṣtm mṣʾm l-ṭt ṭt ywmm* 'ten coins of full value for each day' [R3854,6–7]. Note *s²lθt-ʾδ* 'for the third time' [e.g. C366] (cf. Arabic *ḥi:na-ʾiδin* 'at that time').

Verb

Root
Consonantal roots may be classified into "sound" and "weak." Sound verbs have three permanent radicals though a few have four (Qat. *fdfd* 'to expand, improve'). Weak verbs contain *w* or *y* as one of the radicals, namely I*w/y*, II*w/y* and III*w/y*. Verbs I*n* and verbs with the second and third radicals identical also exhibit some special features.

Themes
Of course, neither *ṣaḥḥafa* nor *ṣa:ḥafa* themes can be distinguished in writing from the basic theme *ṣḥf*. The existence of at least one of them can easily be proved by many semantically contrasting pairs like *yfʿ* 'to raise up, to set up' ~ *yfʿ* 'go up, rise', *xṭʾ* 'to commit a sin, an offense' ~ *xṭʾ* 'to make amends for a sin'; *kwn* 'to be, to exist' ~ *kwn* 'to go to help'.

A theme *ṣḥḥf* is attested in Minean: *ʾxxr* 'to impose' (also *ʾxr*); *ʿlly* 'to raise, to lift', *fnnw* 'to send, to credit goods', *frrʿ* 'to lift', *s¹kky* 'to irrigate fields', *ẓwwr* 'to wall something', impf. *ymhhr-* 'to make a payment'. This theme is sometimes compared with the Arabic theme II (*kattaba*, reconstructed also for Sayhadic, see above); according to this suggestion, the graphic doubling of the second radical may represent its phonetic gemination (as in Arabic). We know, however, that a theme *kata:taba* (*kätatäbä*) is attested in Ethiopian (the so-called "frequentative"), but the scarcity of Minean examples prevents us from drawing definitive conclusions.

The basic meaning of the *h*-theme (*s¹-* in non-Sabean Sayhadic) is the causative: *h-s¹ṭr* 'to commit to writing' ~ *s¹ṭr* 'to write'; *h-wrd* 'to bring troops into the field' ~ *wrd* 'to go down; to fall upon the enemy', Qat. *s¹-gzm* 'to cause to decide' ~ *gzm* 'to decide'. If the simple theme denotes a state, the *h*-theme may have a resultative causative meaning: *htlf* 'to destroy' ~ *tlf* 'to be struck dead, to perish'; Min. *s¹mlk* 'to make/proclaim a king' ~ Qat. *mlk* 'to rule, to be a king'.

Two *t*-themes are attested, namely *ṣ-t-ḥf* and *t-ṣḥf*. Their primary significance is reflexive and passive, presumably for **ṣaḥafa* and **ṣaḥḥafa* respectively.

Reflexive: *ḥ-t-my* 'to protect oneself' (~ *ḥmy* 'to protect'); *γ-t-s¹l* 'to wash oneself'; *t-ṣnʿ* 'to fortify oneself' (~ *ṣnʿ* 'to fortify'); *s¹-t-ky* 'to quench one's thirst' (~ *s¹ky* 'to irrigate').

Passive: *s²-t-rḥ* 'to be saved' (~ *s²rḥ* 'to deliver, to save'), *t-ʾtm/ʾ-t-tm* 'to be mustered (~ *ʾtm* 'to bring together'); *s¹-t-my* 'to be named' (~ *s¹my* 'to name').

These themes often appear as medial: *x-t-dm* 'to get fields cultivated'; *ts²ym* 'to appoint somebody (direct object) for oneself' (~ *s²ym* 'to appoint'), *t-s¹ṭr/s¹-t-ṭr* 'to write an inscription (direct object) for oneself' (~ *s¹ṭr* 'to write'). Sometimes

the meaning is only slightly differentiated from that of the basic theme, e.g. *s¹-t-kf* 'to build a roof [for oneself]' (~ *s¹kf* 'to roof'). Some *t-s̲h̲f* and *s̲-t-h̲f* forms are reciprocal and may represent a **taṣa:ḥafa* theme: *thrg* (also *htrg*) 'to beat one another, to fight' (~ *hrg* 'to kill'); *tᶜṣr* 'struggle with one another'.

The original (causative reflexive) meaning of the *s¹t-* theme may be found in Minean *s¹t-s̲ᶜk̲* 'to inform oneself' (~ *s¹-s̲ᶜk̲* 'to announce'). However, much more often this theme denotes seeking, asking for something e.g. *s¹t-ydᶜ* 'to seek oracular knowledge' (*h-ydᶜ* 'to make known'); *s¹t-ws²ᶜ* 'to seek favor' (~ *h-ws²ᶜ* 'to grant favor'); *s¹t-ml²* 'to demand oracular response' (~ *h-ml²* 'to grant a request'), *s¹t-zr* 'to ask to visit' (~ Arabic *zwr* 'to visit').

Voice
The distinction between active and passive must have been expressed by internal apophonic changes, thus having no representation in writing. Yet it is easily detected syntactically: *mk̲ṭr s¹rk̲ bn mh̲rmn* 'incense altar which was stolen from the temple' [C30,4–5] vs. *δ-ys¹rk̲n mh̲rm-hw* 'one who robs his temple' [C522,2]; *wld l-hmw bnm δkrm* 'a male child was born to them' [J669,8-9] vs. *γlm wldt-hw Mgd²lt* 'a boy to whom *Mgd²lt* gave birth' [C19,7–8].

Tenses
There are two basic types of conjugation, prefixal and suffixal, traditionally called "imperfect" and "perfect." Only forms of the 3rd person are found in monumental texts; some 2nd person forms are attested in minuscule documents. The 3rd person forms are as follows (on N-imperfects see p. 235):

	Singular			Dual			Plural		
	Pf.	Impf.	N-impf.	Pf.	Impf.	N-impf.	Pf.	Impf.	N-impf.
m.	-Ø	y-	y-..-n	-y (Qat. -w)	y-..-y	y-..-nn	-w	y-..-w (Qat. y-..-wn)	y-..-nn
f.	-t	t-	t-..-n	-ty	t-..-y	t-..-nn	Qat. -n		t-..-nn

Plural and dual endings of the perfect are extremely rare in Minean so that the respective forms coincide with the singular. After *l-* (see p. 236) prefixal *y-* is occasionally dropped (e.g. minuscule *l-hṣlḥnn* 'may they both put in order ...' [YM11729,2–3], contrast *l-yhṣlḥnn* [YM11732,2] in a completely identical context).

No 1st person forms are attested (see, however, *br²-k-h ²n* (?) 'it is myself who built it' etc. in a peculiar (Sab.?) inscription from the Wadi Shirja:n [J2353]). The following 2nd person verbal forms are attested in published minuscule texts: pf. *s¹ṭr-k* 'you wrote', *s̲h̲f-kmw* 'you (pl.) wrote' etc.; impf. *t-ml²* 'you pay', *t-s̲h̲f* 'you write' etc.; with -*n*: *t-s¹tnh̲r-n* 'you make a sacrifice'; *t-s¹tᶜdd-n-n* 'you (pl.) check your calculations'.

The perfect denotes both immediate and historical past action: *Yhd² Ykf ... br² ... byt-hw* 'Yehuda Yakkuf has built his house' [B.Ašwall,1], *h̲lθ ... bwrx δ-Mlyt*

δ-xrf Wddʾl 'he was ill in the month *δ-Mlyt* of the year of [the eponym] *Wddʾlʾ* [J613,9–10]; a durative action in the past *hwsʾy-hmw b-mlʾt sʾbʿt xryftm* 'they gave [French *donnaient*] them assignments during seven years' [J647,26–27]; seldom a state without restriction of time: *rhkt bʾrm δt bn-hw ysʾtʾbnn* 'the well from which they take water, is far' [Hakir 2 = Gr40,2]. An example of optative perfect may be found in *w-nkrm kwn δn mṣdkn* 'and let this document be annulled' [Gl 1533,11–12]. For the perfect in prohibitions, see p. 238.

The imperfect denotes an action in the future: *w-yzʾn hwfyn ʾṣlmm* 'and he will continue giving statues [J736,11] (also future in the past, e.g. *w-sʾft-hmw ʾlmkh θhwn k-yʿthdn brwy-hw* 'and *ʾlmkh θhwn* promised them that he would protect his two sons' [J716,6–7]); an action without restriction of time: *sʾṭrnhn yrmyn bʾrn* 'the two inscriptions overlook the well' [J539,4–5]. The imperfect preceded by *w-* is widely used to denote actions in the past which are regarded as consequences of other past actions (the so-called "consecutive construction"): *w-bʿww b-llyn hyrt ʾhbsʾn w-yhrgn bn ʾhbsʾn ʾrbʿ mʾnm ʾsʾdm* 'they attacked the camp of the Habashites at this night and killed of the Habashites 400 men' [J631,29–31]. In middle Sabean the imperfect without *w-* sometimes denotes past actions without any consecution: *w-l-θlθm ywmm ybrrn* 'and on the third day [some of the tribe ...] came into the open [to fight]' [J631,28].

In Qatabanian the indicative imperfect is usually preceded by *b-*: *b-ysʾfd xr[f]myw* 'he will complete two years [in office]' [R3688,3–4].

Moods
Monumental texts yield no imperative forms (a possible exception may be *tkṣw* in *tkṣw ʿbrm wθnn* 'avoid surpassing the boundary stone' [R4088,1–2]). A few imperative forms (sometimes augmented with *-n*) may be found in minuscule documents: *f-hmy hfn-k f-tʿlm-n b-hmy* 'as for these two [documents], sign them both [*tʿlm-n b-hmy*] as soon as they reach you' [YM11749,2]; *w-ʾnt f-sʾxl-n ʿbd δ-Dwrm* 'and you, take care about the client of *δ-Dwrm*' [YM11742,2].

In Sabean the imperfect is often augmented with *-n* (exact forms on p. 234). Though the exact distribution of N-forms and simple imperfects is still a matter of dispute, it may be observed that the N-forms are predominant in subordinate clauses (including relative), and in the jussive (see below): *ʿsʾr yʿsʾrnn-hw* 'the tithe which they cede to him' [Gl1438,5], *w-mẓʾ-hmw mnδrm ... k-yhṣrn b-ʿly-hmw Krbʾl Byn* 'and a warning reached them ... that *Krbʾl Byn* was marching off against them' [J643,26–27]; but see also *w-bn-hw f-ybhdn mlkn* 'and it was from it that the king made a sortie' [J576,4].

The prefix conjugation (alone or preceded by *l-* (*k* in Minean, *l* or *h-* in Hadramitic)) is often used as jussive–optative. It is impossible to say whether there was some formal difference between forms employed in such cases, and the normal forms of the imperfect. Examples: *w-b-δt ysʾfn-hmw ʾlmkhw wldm* 'and because of that, may *ʾlmkhw* grant them more children' [J558,4]; *w-l-yzʾn ʾlmkh hwfyn-hmw* 'and may *ʾlmkh* continue protecting them' [J584,4]; *w-l-yrʿy θwrm* 'let the bulls be pastured' [Gr/Hadaka:n,1].

An example of negative imperative (*ʾl* + *n*-impf.): *w-ʾl tʿyrn ʾysʾn* 'do not do harm to this man' [minuscule YM11742,3].

Infinitives and Participles

The infinitive usually looks like the sg. 3m. of the perfect (e.g. *ṣhf, hṣhf, tṣhf* etc.) with the exception of **ṣaḥḥafa*-theme, the infinitive of which is *tṣhf(-t)*. In Sabean *-n* is sometimes added to this bare stem, but its use is in most cases optional. Mimated infinitives are attested in Qatabanian: *bn wfr w-ʿs²ḳ w-sʾḳh-m w-sʾʿhd-m θrbt-sʾ* '... from cultivating, and tilling, and setting in order, and taking care of his field' [R3854,4–5].

The infinitive may appear in the position of the direct object: *xmr-hw ʾlmḳh hrg lbʾn ʾlmḳh* 'allowed him to kill the lion' [Ry538,28] and with prepositions (very often with *l* to denote purpose: *w-yns²ʾ ʾsʾm l-mtʿ ḳny-hw* 'and every man rose in order to protect his property' [R3945,2]).

Much more often, however, the infinitive functions as a finite verbal form. In this case the (nominal or pronominal) subject which follows it seems to be in the nominative: *xmr₁-hmw₂ ʾtw₃ w-sʾtwfyn₄ hwʾ₅ brḳn₆ b-wfym₇* 'he [the deity] granted₁ them₂ the coming₃ and the taking place₄ of that₅ monsoon₆ without accidents₇' [E22/1]; *sʾtʾwln hwʾ w-ʾḳwl-hw* 'the return of him and his ḳayls' (lit. 'the returning, he and ...') [J577,15].

The infinitive is used in the so-called "infinitive chain," a series of homogeneous verbal predicates, in which only the first member is a finite verbal form. The remaining verbs are in the infinitive, with or without *-n* (the last member of the infinitive chain usually has *-n*). Examples: *t-nxyt w-tnδrn l-ʾlh-h* 'she confessed and did penance to her god' [R3957,2–4]; *w-yḳmʿw w-hbʿln hgrnhn* 'and they overthrew and seized the two cities' [J576,8]; *w-θbrw w-hbʿln w-ḳmʿ w-hsʾbʿn* 'and they destroyed, seized, overthrew and forced to capitulate' [J576,4].

The patterns of active and passive participles of the basic theme are *ṣhf* and *mṣhf* respectively: *sʾbʾm l-sm Rhmnn* 'fighting for the name of [the god] Raḥmaːn' [Ry520,8], *mhmy* 'irrigated' [in J550,1]. For a passive participle *ṣhf* see probably Hadramitic *mʿltn* in *sʾbʿ bhhtm w-ʿrḳtm mʿltm* 'seven [votive] phalli with torn out testicles' [RbI/84no. 253a–e,2–4] (cf. Arabic *mʿl* 'to castrate'). Both active and passive participles of derived themes are poorly attested. For the causative theme see Qat. *msʾnkrm bn brθ-sʾ* 'one moving [the object] from its place' [e.g. J350,4], Min. *msʾmtʿm W[nh]sʾtb w-ḳny-sʾw k-Wd* 'consecrating Wnhsʾtb and his property to Wadd' [R3602,6–7]. *mtrhm* in *Rhmnn mtrhmn* 'the Merciful Rahmaːn' [F74,3], might be considered a participle of the *t*-theme, but it is likely to have been borrowed from Hebrew/Aramaic.

Verbal Forms from Weak Roots

In the imperfect of the basic theme from roots I*w*, the first radical is dropped: *yhb* < *whb* 'to give'; *yrd* < *wrd* 'to go down' etc. Conversely, the first radical is preserved in corresponding forms from roots I*y*, e.g. *yyfʿ* < *yfʿ* 'to go up'. As for the derived themes, where we deal with contraction rather than with simple deletion,

forms with and without *w* are attested indiscriminately, though forms preserving *w* are somewhat more frequent: *hwfy/hfy* 'to grant', *hwθk/hθk* 'to guarantee' etc.

In verbal forms from roots IIw/y the weak radical may or may not be preserved. The distribution of these forms is still under review. Those with *w/y* dropped are evidently more common: *gz* 'to flow, pass' (contrast sg. 3f. *gwzt*); *hkh* (also *hkwh*) 'to finish off'; *tkwm* 'to rise with a claim', *ts²m* 'to appoint' (the root *s²ym*); *s¹t⁽n* 'to seek help' (the root *⁽wn*). In the imperfect of the basic theme non-contracted forms do occur (*ykwn* 'to be', *ymwt* 'to die') but not in the causative theme (see, however, Min. *ys¹hwr* 'to ordain').

Weak consonants are usually preserved in verbal forms with roots IIIw/y: pf. *ʾtw* (pl . *ʾtww*) 'to come', *kny* (f. *knyt*, pl. m. *knyw*) 'to acquire'; impf. *yʾtw*, *ykny*; *h*-theme: pf. *hʾtw*, impf. *yhʾtw* 'to bring', pf. *hkny*, impf. *yhkny* 'to dedicate'. Forms with last radical dropped are relatively rare; see *yʾt* (beside *yʾtw*); *hrd* (beside *hrdw*) 'to satisfy', *hgd* 'to make a grant of land' < *gdy* (cf. *gdyt* 'grant of land').

Adverbs and Other Parts of Speech
Nouns (presumably in the accusative with -*m*) used as adverbs are discussed on p. 227. Adverbs proper are very rare (probably *θmt* 'there').

The following are the most common prepositions: *l-* 'for, to, until', (*k-* in Minean, *h-* in Hadramitic); *b-* 'in (local, temporal), by , with', *bn* 'from' (*mn* in inscriptions from Haram: *mn mhrmn* 'from the temple' [= 548,8] (see p. 221), *byn* 'between', *⁽m* '(together) with', *⁽ly* 'on, above', *h(n)g* 'according to', *⁽d(y)* 'until, in', *⁽br* 'towards'. Compound prepositions (mostly with *b-* and *bn*) are very widespread in Sayhadic, e.g. *b-⁽ly* 'above', *bn-⁽m* 'from' etc. In Sabean -*n* is often added to some prepositions without appreciable difference in meaning, e.g. *⁽m-n*, *hg-n*, *⁽br-n* etc. In Qatabanian forms with -*w* generally correspond to Sabean forms with -*y*, thus *⁽lw*, *⁽dw*.

Some enclitic particles are attested (especially often in Qatabanian): -*mw* (-*m*), Min., Qat. -*ʾy*. Though in most cases their exact function remains obscure, some examples of evident semantic contrast between forms with and without enclitics may be quoted: *b-mw hwt wrxn* 'in that very month' [e.g. J653,13–14] versus *b-hwt wrxn* 'in that month' [e.g. J627,8]. Note the deictic particle *rʾ* 'behold!'.

Syntax

Word Order
In sentences with a non-verbal predicate (which may be a noun, an adjective, a deictic pronoun or a prepositional phrase), the first position is most often occupied by the subject, though the opposite is not infrequent, especially in decrees. Examples:

(Qat.) *w-ṭbnn s¹m s²ᶜbn ms³ wdn w-ṭbnn* 'and the landowners are (*s¹m* 'they' is used as a copula) the community, the council and the landowners [themselves]' [R3566,5];

θhrn … s¹xlm w-nfḳm 'the document … is binding and having legal force' [C376,12–13];

b-ᶜly-hw θwrm 'there is a [bronze] bull on it' [J713,6];

vs. (Qat.) *ʾs¹dm ᶜlmw b-δn fṭḥn … Yṣrᶜm δ-γrbm* [etc.] 'Yṣrᶜm δ-γrbm etc. are the people who signed this decree' [R3566,23–24];

f-brʾm mhŝʾmn 'and the seller is not guilty' [R3910,6].

In verbal sentences the subject usually heads the sentence if it is at the beginning of an inscription: *ʾmtʾlmḳh s¹bʾytn … hḳnyt … ʾʾmtʾlmḳh*, the Sabean woman, has dedicated …' [J706,1–2]. Otherwise the normal word order is VSO: *w-tḳnᶜ Yrm … ʾmr-hw* 'and Yrm convinced his lords' [C315,8–9]. The indirect object usually comes before the direct one: *hwfy l-mrʾ-hmw hḳnyt-hw* 'he has given to their lord his offering' [J664,7–8].

Any part of the sentence may be put before the verbal predicate for topicalization. The verb in this case is usually introduced by *f-*: *w-hmw f-ḥmdw xl w-mḳm Tʾlb Rymm* 'as for them, they praised the strength and the power of *Tʾlb Rymm*' [C2,7–8]; *w-bᶜd-hw f-yṣbʾw b-ᶜly ʾrḍ Mhʾnfm* 'it was after this that they waged the war against the land of [the tribe] *Mhʾnfm*' [J576,6].

Agreement Rules

Qualifiers agree with nouns they qualify in gender, number and state (see pp. 225, 230, 230 and 232).

An agreement in gender and number between subject and predicate is normally observed: *s²ftt-hw ʾmt-hw* 'his maidservant promised him' [J717,4–5]; *tʾwly mrʾy-hmw* 'their two lords returned' [J581,5].

Pluralis majestatis is common in Himyarite (but not Sabean) royal inscriptions: *S²rḥbʾl Yᶜfr mlk S¹bʾ w-δ-Rydn … ᶜδbw ᶜrmn ᶜS²rḥbʾl Yᶜfr*, the [Himyarite] king of Saba' and Dhu:-Rayda:n etc. have repaired the dam' [C540,1–6]. Verbs in the plural instead of the dual occur sporadically in archaic Sabean (*w-ḳwlnhn … l-ykwnw b-ᶜly mbᶜl Tʾlb* 'and let the 2 ḳayls be in charge of the property of [the god] *Tʾlb*)' [R4176,5], whereas in middle Sabean this becomes a marked trend, thus *ʾgrm w-S²rḥm δy δ-Byn hqnyw … ʾʾgrm and S²rḥm*, both of (dual!) [the clan] δ-Byn, have dedicated (pl.) …' [J720,1–2]. The verb *kwn* 'to be, to occur' is often used without agreement with the subject, e.g. *xwm w-ᶜws¹ w-mwtt kwn b-ʾrḍn* 'pestilence, plague and epidemic which took place in the land' [J645,13–14].

Assertions/Negations

Sabean *kn*, Minean *s²kn* introducing legal documents might be regarded as asseverative 'thus, certainly'. The same may be assumed for such combinations of particles as *l-k-δ(y), k-δ-m* etc. See further *l-* in *mn l-yhmr[n]* 'indeed, whoever sells corn' [C603a,3]; Qat. *n-* in *n-l ys¹tfḥwn* 'indeed, let them be governed' [R3691,5].

The most common negative particle is *ʾl*. It is used with the narrative perfect and imperfect (*ʾl ḥyw l-hw wldm* 'a child of his did not survive' [Ry375,4]; Qat. *ʾl sˡknw w-ʾl b-ysˡknwn* 'they have not enforced and they will not enforce' [R3566,14]); in indirect prohibitions, also both with the perfect and the imperfect (*ʾl sᴾlw* 'let them not lay claim' [e.g. C611,5], *ʾl yˁtnn* 'let them not neglect' [R4176,1], Qat. *ʾl b-ys²tyt* 'may it not be sold' [R4337B,19]). For the so-called "generic negation" see *ʾl ʾsˡ* [e.g.F70,3] followed by a verb 'nobody should ...' (lit. 'no man should ...'); also *ʾl l-hmw b-hw kl mwm* 'there is no water for them in it [the besieged castle]' [E13/10].

The negative *lhm/lm* is found in Minean: *lhm ˁrb* 'let him not enter' [R2803,1]. In texts from Haram the negative *lm* is attested (*lm yγtsˡl* 'he did not wash himself' [e.g. C533,4–5]), which is thought to be a loan from Arabic. The negative particle *dʾ* (probably borrowed from Himyaritic) in some late texts: *dʾ gbʾw* 'they did not return' [C541,50]. Sab. *γyr* in *γyr ṯhrm* 'not pure' [C523,6] also deserves mention.

A possible example of an indirect question may be *mrḍm fs²ʾm δ-ʾl mn s²ˁr k-m-hn hʾ ḥgr-hw* 'a contagious disease about which nobody knew what (*k-m-hn*) its remedy was' [J720,12–14].

Coordination, Conditionals
Coordination (both between single words and clauses) is expressed by *w-* which practically always precedes every element of the chain (except the first one): *b-wfym w-ḥmdm w-yhrm ...* 'in safety, glory, renown etc.' [J616,29]. Only for Qatabanian do we have some exceptions: *S²hr Hll ... kθr kyn rs²w ˁmm θntm ʾS²hr Hll* collected [sacred] taxes, was a *kyn*-official, performed priestly functions for a second year' [e.g. R3540,1–3]). *w-* is also used as disjunctive and adversative: *δ-rḥq w-qrb* 'which is far or near' [e.g. J578,41]. Note also disjunctive *ʾw (f-ʾw): ˁbdm f-ʾw ʾmtm* 'a male or female slave' [R3910,3].

Conditional clauses are introduced by *hm/hmy* (the latter especially in minuscule) 'if'. Apodoses may be preceded by *w-* or *f-*: *hm ʾl tʾxδ f-ḥlt nfsˡ-hw l-δ yhrgn-hw* 'and if he is not arrested, anyone may kill him' [R4088,4–6]; minuscule *hmy krb l-k sˡlˁm δ-glglnm ... l-tmlʾ sˡlˁtn ʾbdlm* 'if he delivers to you cargoes of sesame ... may you pay for this merchandise with an equivalent' [YM11738,4–7]. Indefinite pronouns (see p. 225) may imply some shade of conditionality: *w-l-wzʾ ʾlmkh xmr ˁbd-hw ... γmmm ʾhn-mw ysˡbʾnn* 'and may *ʾlmkh* grant his servant booty wherever they go on campaign' [C407,27–28]; *w-yzʾn hwfyn ʾṣlmm k-mhn-mw yxmrn-hw ʾδkrm hnʾn* 'he will continue giving statues whenever (*k-mhn-mw*) he (the deity) grants him healthy male (children)' [J736,11–13].

Subordination
The conjunction *k-* (also combinations like *k-δ, k-n* etc.) is employed to introduce object clauses: *kwmw k-ʾl kwnw l-bny ˁθkln* 'they claimed that they did not belong to the clan ˁθkln' [F76,7]. Final and causal clauses may be introduced in the same way: *tkhw ... s²ˁbn δ-hgrn Mdrm ... k-yhgrnn ... δt brktn l-Nws²m* 'the community of the city *Mdrm* ... has ordered that they should reserve ... this cistern ... to the

exclusive use of [the goddess] *Nws²m'* [Rob Mašl,1–4]; *w-ḳds¹w bᶜt Mrb k-b-hw qs¹s¹m* 'they held a mass in the church of [the city] Maːrib, as there was a priest in it' [C541,66–67]. A widespread causal conjunction is *l-ḳbly* 'since, because': *l-ḳbly δ-hxbt brḳ xrf δ-xrf Tbᶜkrb* 'because the autumn monsoon of the year of (the eponym) *Tbᶜkrb* failed to come …' [J653,5–6].

The following are the most common conjunctions of time and place:

ywm 'when' (*ywm hwṣt kl gwm* … 'when [lit. the day in which …] he gave legal status to every community …' [e.g. R3949])

mty 'when' (Min., Qat.) (*mty yxdr xdrm* 'when someone establishes a trading stall' [R4337A,13])

bᶜdn δ- 'after' (*bᶜdn δ-ᵓδnw b-ᵓs²ᶜbn* 'after they allowed the communities to depart' [C541,76])

ᶜdy (*δ* … */δt* …) 'until' (*f-hṣrw ᶜdy δt mθᵓw ᶜdy brrn* 'and they marched until they reached the plain' [J576,5–6])

brθ 'where' (*bn bhrm brθ hs²k-hw mrᵓ-hmw* 'from overseas where their lord sent him' [E28/1])

Relative clauses may be introduced by relative particles (see additional examples pp. 225 and 235) or be asyndetic. In the first case the antecedent is in the determinate state (or in the absolute state with mimation) while in the second it is usually in the construct state. Examples:

kl ᵓs¹dn w-ᵓnθn ᵓlw ys¹tmynn ᵓs¹lm w- … 'all the men and women who are called *ᵓs¹lm* and …' [F76,2–3]

ᵓḳny-hmw δ-ḳnyw w-yḳnynn 'their possessions which they have acquired and will acquire' [C94,6]

hlθ ymrn-hw drm b-xrfm 'disease which strikes him once a year' [J711,5–6]

kl ms¹bᵓ s¹bᵓw 'all campaigns in which they took part' [e.g. C2,10–11]

If the antecedent is an indirect object (more seldom also a direct one) it may be reflected in the relative clause by the "resumptive pronoun": *b-mw ywmn δ-b-hw θhb-hmw* 'on the very day in which he returned (the answer) to them' [J616,19–20]; Qat. *kl ᵓfthm b-s¹m-ᵓl fth* … *mlkn* 'all decrees which the king has not decreed …' [R3566,15].

Copular and Possessive Expressions

In addition to personal pronouns (see p. 237), the verb *kwn* 'to be' often appears in the function of copula: *w-kwn δn wθnn wθn byn* … 'and let this boundary stone be the boundary stone between …' [C975,1–2]. For zero copula in nominal sentences see p. 237. Some possessive constructions with *l-* (also with *kwn* 'to be') are attested:

wtfn ... l-δ-S¹mwy 'the land possession belongs to [the god] *δ-S¹mwy*'
    [Ist7626,1];
l-kwn hmw ᵓs¹dn ... w-ᵓnθn ... l-byt ... ᵓ[m]rᵓ-hn 'so that those men and women
    should belong to the house of their lords' [F76,4–5].

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13 Ge'ez (Ethiopic)

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Ge'ez (*gə'əz*, self-designation, etymology uncertain) is the oldest attested member of the Ethiopic Semitic language family. It is presumably derived from one or more forms of South Semitic brought from Yemen, probably in the first half of the first millennium BCE. We know in fact that there were trade relations between the South Arabian city states and the Ethiopian coastal and highland regions, and a South Arabian colony existed not far from the later Ethiopian capital Aksum, paleographically dated to around 500 BCE by monumental inscriptions of the Sabean type. However it is not possible to derive Ethiopic Semitic from any attested form of Old South Arabian. One may presume that Ethiopic Semitic evolved out of a South Arabian-based trade lingua franca. The substratum languages in this development presumably belonged to the Cushitic language family, and a number of important early loanwords from Cushitic are evident in Ge'ez – but these are far from approximating the level of penetration of, say, English vocabulary by that of French at the time of Chaucer. Processes of piginization and creolization familiar from differentiation and development of language families elsewhere in the world undoubtedly played a role in the development of Ge'ez – for example in the systematization of the weak verb system and the regularization and partial lexicalization of the derivational class system noted below. However Ge'ez maintains a level of morphological complexity inconsistent with any radical pidginization: maintenance of a (reduced) case system, a large inventory of internal plurals, most of the major inflectional and derivational categories of South Semitic.

Ge'ez disappeared as a spoken language probably some time before the tenth century CE. However it continues today as the liturgical language of the Ethiopian Orthodox Church, and was the only official written language of Ethiopia practically up to the end of the nineteenth century. The corpus of written Ge'ez material can be conveniently divided into three periods.

Aksumite Inscriptions
The core of this corpus is formed by about a dozen longish royal inscriptions in Ge'ez (plus six in Greek), the most important of them from the king Ezana (perhaps mid-fourth century CE). Six of the Ge'ez inscriptions are written in the Old South Arabian alphabet, two in non-vocalized Ethiopic, and four in the earliest attestation of vocalized Ethiopic script. The earliest inscriptions of Ezana are pagan,

while the last few attest to the introduction of monotheism (presumably Christian) to the court at Aksum. There are also about thirty other short Aksumite inscriptions in vocalized and unvocalized Ethiopic – at least nine of them from a period before Ezana.

Ge'ez: Pre-1000 CE

Although there are few if any extant manuscripts earlier than the twelfth century, scholars have isolated a core of Ge'ez literature – the first texts drawn up to define and propagate Christianity in Ethiopia. These include the Ge'ez translation of the Bible and accompanying apocrypha, liturgical texts, some lives of saints, some patristic fragments, and a version of the monastic Rules of Pachomius. The texts are almost completely ecclesiastical in nature, and most of them are translations or adaptations from the Greek (which in turn may be a rendering of a Hebrew or Aramaic original). The linguistic value of these texts arises from the fact that they were drawn up when Ge'ez was still a spoken language, and they thus set the stylistic, lexical, and syntactic parameters for all subsequent use of Ge'ez.

Ge'ez: Post-1000 CE

After a very obscure period of isolation starting with the collapse of Byzantium in the Near East, and continuing during the first centuries of Islam, Ethiopia reestablished contact with Egypt – from that time until 1945 the Metropolitan (*abuna*) of the Ethiopian Church would be an Egyptian cleric appointed by the Patriarch of Alexandria. There was a new flourishing of ecclesiastical literature of all genres (much of it translated from the Arabic, in turn translated from Greek, Coptic, Syriac, or other sources). In addition, an original secular or court literature arose in the form of royal chronicles, legal texts, even a sort of national epic (the *Kəbrä Nägäst* 'Glory of Kings', an elaboration of the legend of Solomon and Sheba). A more popular magic literature also took shape, centered around the production of amulets and "magic scrolls" – a productivity that continued into the present century. Given the necessity of some knowledge of Ge'ez for many court and ecclesiastical careers, a church- and monastery- based standard curriculum of studies was established, to which we owe, among other things, our knowledge of the pronunciation tradition of Ge'ez.

Phonology

Our most direct source of evidence for Ge'ez phonology is the pronunciation tradition, supplemented by what is known about the phonologies of the Ethiopian Semitic languages still spoken today. Neither of these sources guarantees accurate information about the pronunciation of Ge'ez in the earliest sources. For the consonants at least, the fact that the writing system contains symbols for three consonants ($\acute{s}$, $\d{h}$, $\d{d}$) which are distinguished neither in the traditional pronunciation nor in any of the modern languages makes it clear that the traditional pronunciation shows a state of the language later than that of the earliest writing system. More-

over, the traditional pronunciation, which, since the Middle Ages, has represented a court-influenced Amharicizing tradition, does not have a distinct phonological representation for two characters, *ḥ* and ʿ (pronounced as *h* and ʾ), which are preserved in Tigrinya and Tigré. (Anecdotal evidence indicates that distinct pronunciation of these consonants was considered, at least by literati and the clerical elite, as "rustic" and "peasant-like".) See p. 245 for the transcription values and probable nature of these consonants.

Three important aspects of phonological representation, however, are not accounted for in the writing system: stress, consonantal gemination, occurrence of /ə/ (as opposed to absence of vowel). No graphic representation of stress or gemination was ever developed in native Ge'ez texts; and the vocalic system uses the same modification of the basic consonantal signs to represent consonant followed by /ə/ and consonant followed by no vowel. For these phenomena we must rely wholly on a still imperfectly studied pronunciation tradition. In this chapter we will follow Leslau 1987 for stress, gemination, and shwa, to the extent that they are indicated there, otherwise Cohen 1921 and Makonnen 1984; Mittwoch 1926 notes a large number of additional gemination patterns which still need to be investigated.

Consonants
The consonant system of Ge'ez is shown below.

p	t		k	k^w	ʿ	ʾ
ṗ	ṭ		q	q^w		
b	d		g	g^w		
f	s	ś	ḫ	$ḫ^w$	ḥ	h
	ṣ	ḍ				
	z					
m	n					
	r	l				
w	y					

Labials: /f/ is the basic voiceless labial in Ge'ez (as in Arabic and South Arabian). /ṗ/, and the even more rare /p/, occur almost exclusively in loanwords, where they usually correspond to Greek π.

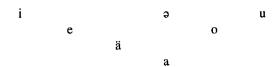**Emphatics:** /ṗ, ṭ, ṣ, ḍ, q/ are all glottalized in Ge'ez, as in Ethiopic Semitic generally.

Sibilants: The consonants corresponding to the graphemes ⟨ś⟩ and ⟨ḍ⟩ have merged respectively with /s/ and /ṣ/ in the phonological system represented by the traditional pronunciation – and indeed in all modern Ethiopic Semitic. These two consonants are reflexes of a lateralized series (voiceless and glottalized) in Proto-Semitic, also attested in South Arabian. There is however no evidence either in the tradition or in Ethiopic Semitic what value these consonants may have had in Ge'ez. For ⟨ḍ⟩ the transcription value comes from the conventional representation

of the etymologically corresponding segment in Arabic and Old South Arabian. *ś* is an older conventional representation of the Proto-Semitic voiceless lateral, and also of the grapheme which represents it in Hebrew. In some grammars and dictionaries, ⟨ś⟩ is transcribed as *š*, since it frequently corresponds etymologically to Arabic /š/. There are however some major problems with this. In the first place, it is not certain whether, or at what periods ⟨ś⟩ might have been pronounced as [š]. More seriously, this transcription could lead to confusion, since a genuine /š/ **did** develop in Ethiopic Semitic (mostly from palatalization of /s/), and a new grapheme for it, properly transcribed as *š* was created by adding a diacritic to the grapheme ⟨s⟩. Moreover, this ⟨š⟩ grapheme can occur in late Ge'ez texts, usually in contemporary personal or place names.

Laryngeals: /ḫ/ corresponds etymologically to a velar or uvular spirant in Akkadian, Arabic, and South Arabian. However in the Ge'ez pronunciation tradition and in Ethiopic Semitic generally, it has merged with /ḥ/. Presence or absence of glottal stop is not distinctive in initial position, although there is no way in the writing system to write a syllable-initial vowel without a preceding glottal stop (or glide if the preceding syllable ends in a vowel). Since it is not phonetically salient in the traditional pronunciation, no representation of initial glottal stop is given in this description. Note however the non-existence of a contrast between initial /ä/ and /a/ in the pronunciation tradition; the putative sequence # + /ʾ/ + low vowel is usually written ⟨ʾä⟩, but pronounced /a/. This is possibly connected with the laryngeal ("H") effect: /äH/ → /aH/ in syllable-final position (*yəsmaʿ* 'may he hear', versus paradigmatic *yəlbäs* 'may he wear'). The other important laryngeal effect is low vowel harmony across laryngeals: /əHä/ → /äHä/ (*yäḥärrəs* 'he plows', /äHə/ → /əHə/ (*yəməḥḥər* 'he is merciful') – both versus paradigmatic *yənäggər* 'he speaks'. These two effects account for most of the differences in the inflectional behavior of verbs whose roots contain a laryngeal radical.

Labiovelars: All the velars of Ge'ez developed a corresponding labio-velar phoneme. In some cases there is an unambiguous conditioning environment with a (long) rounded vowel: the denominal verb *tärgʷämä* 'translate' comes ultimately from the Aramaic loanword *targūm* 'translation'; *əḫʷ* 'brother' shows the influence of the Proto-Ethiopic, and Proto-Semitic, long stem vowel in **aḫū-*. In other cases derivation from a form with such an environment must be assumed: *ḫʷälläqʷä* 'count' must have involved an analogical extension from some environment such as **ḫul(l)ūq-* 'counted' (cf. Arabic *ḫalaqa* 'measure').

Glides also interact with vowels in a characteristic but highly patterned way, which accounts for a number of the inflectional differences between paradigmatic verbs and verbs whose root has a glide radical. Using the roots *ftw* 'love' and *sty* 'drink', these can be exemplified: /äw/ → /o/ (*fätäwkä ~ fätokä* 'you loved'), /äy/ → /e/ (*sätäykä* [*sätekä* rare] 'you drank'), /əw/ → /u/ (**yəfättəw > yəfättu* 'he loves'), /əy/ → /i/ (**yəsättəy > yəsätti* 'he drinks').

Vowels
Ge'ez has the following seven-member system:

i			ə		u
	e			o	
		ä			
			a		

Assuming a Proto-Ethiopic Semitic system with three short vowels /*i, *a, *u/, three long vowels /*ī, *ā, *ū/, and two diphthongs /*ay, *aw/, then it is clear that the Ge'ez system is the result of a series of changes which started with a merger of the short high vowels /*i, *u/ into a high central /ə/, and a shift of the low short /*a/ to /ä/. The quantity of the long vowels was thus made redundant, and they became simply the unmarked low, high front, and high back vowels of the system (even if they are sometimes phonetically longer than /ə, ä/). Note that the use of macrons in the transcription of Ge'ez, which one can still find, should be taken as having diacritical, or at best etymological function only. The monophthongizing of the diphthongs to /e, o/ rounded out the system, which is attested in the earliest vocalized texts, and remains remarkably stable even in many of the modern Ethiopian Semitic languages.

Stress
Stress, for which we are completely dependent on traditional pronunciation, has yet to be completely analyzed. However some general rules seem clear.

1 Verbs are stressed on the penultimate except in pl. 2f.: *yə́ngər, yənä́ggər, nägä́rä, yənäggə́ru* 'may he speak, he speaks, he spoke, they speak', but *nägärkə́n* 'you (pl. 2f.) spoke'.
2 Nouns and pronouns have stem-final stress (i.e., not on the suffix vowel of the accusative): *nəgús, nəgúsä* 'king' (nom., acc.).
3 Personal pronouns and verbs and nouns with pronominal suffixes follow special patterns, giving rise to minimal pairs like *yənäggərá* (< *yənäggər+ha*) 'he speaks to her' versus *yənäggə́ra* 'they (pl. 3f.) speak' (see pronominal paradigms p. 247).

Morphology

Pronouns
The paradigms of the independent and suffix pronouns are given below. As can be readily seen, the 1st and 2nd person independent pronouns are fairly straightforward representatives of Common Semitic, whereas a certain amount of idiosyncratic innovation has taken place in the 3rd person independent pronouns. The suffix pronouns, on the other hand, object and possessive, show predictable Semitic forms. Note that the sg.1 suffix is *-Vyä* with nouns and *-Vni* with verbs. The stressed or unstressed V with 1st and 2nd person forms is, for nouns, the stem-final vowel, or vocalic suffix, if there is one, or /ə/ if the noun form ends in a con-

sonant; for verbs it is /ä/ (except for 2nd person object suffixes with jussive verb forms, compare *yənäggərä́kkä* 'he speaks to you' vs. *yəngə́rkä* 'may he speak to you'). The data of Cohen 1921 and Makonnen 1984 consistently show after a short vowel gemination of the first consonant of an object suffix (*nägärätänni* 'she spoke to me'), or the last consonant preceding the object suffix (*nägärätto* 'she spoke to him'; note also jussive *yəngə́rro* 'may he speak to him' versus present–future *yənäggəró*). In the 3rd person, in nouns and verbs /ä/ + *hú/há/ hómu/hón* gives *ó/á/ómu/ón* (as in *nägärä+hú > nägäró* 'he spoke to him' *betä+ hú > betó* 'his house (acc.)'). In nouns C+hV gives CV (as in *bet+hú > betú* 'his house (nom.)'). The gemination which occurs after a short vowel when the suffix refers to an object is given in parentheses below.

	Independent	Singular	Plural
	1	*ánä*	*nə́ḥnä*
	2m.	*ántä*	*antə́mu*
	f.	*ánti*	*antə́n*
	3m.	*wə'ə́tu*	*wə'ətómu/əmuntú*
	f.	*yə'ə́ti*	*wə'ətón/əmantú*
Suffix	1	-Vyä́/-V(*n*)*ni*	-V(*n*)*nä*
	2m.	-V(*k*)*kä*	-V(*k*)*kə́mu*
	f.	-V(*k*)*ki*	-V(*k*)*kə́n*
	3m.	*-hú ~ -ú ~ -ó*	*-hómu ~ -ómu*
	f.	*-há ~ -á*	*-hón ~ -ón*

The independent pronouns can only be used in subject or predicate nominal function. Quasi-independent and emphatic pronouns for other functions can be obtained by adding possessive suffixes to the pronominal or prepositional bases: genitive *zi'ä-* (*zi'äkä* 'yours, your own'); direct object *kiya-* (*kiyayä* 'me myself'); emphatic reflexive *lälli-* (*lällihu* 'he himself, he alone').

Nouns
The relevant morpho-syntactic categories are gender (masculine, feminine), number (singular, plural) case (unmarked, accusative construct). Of these, gender is not systematically marked in the nominal morphology, although feminine nouns occasionally have a suffix *-t*: *bə'si* 'man', *bə'sit* 'woman'; *əgzi'* 'lord', *əgzi't* 'lady'.

The unmarked pluralizing process is by suffixation of *-at* (from common Semitic feminine plural, used in Ge'ez for both genders): *may* 'water', pl. *mayat*; *ṣəge* 'flower', pl. *ṣəgeyat*; *'aśa* 'fish', pl. *'aśat*. Nouns with feminine formative *-t* may or may not drop this before the suffix: *śərə't* 'law', pl. *śərə'tat*, but *'äzäqt* 'well', pl. *'äzäqat*. However many Ge'ez nouns form their plural according to one of the internal (so-called "broken") plural patterns, if necessary using "underlying" glides or supplemental consonants to make up the canonical consonants of

the pattern. The vast majority of triconsonantal internal plurals follow one of the five patterns:

aCCaC	*ləbs*	'garment'	*albas*
	färäs	'horse'	*afras*
	bet	'house'	*abyat*
	ṣom	'fast'	*aṣwam*
	səm	'name'	*asmat*
aCCuC	*adg*	'ass'	*aʾdug*
	hägär	'city'	*ahgur*
aCCəCt	*rəʾs*	'head'	*arʾəst*
	gäbr	'slave'	*agbərt*
aCaCəC(t)	*bägʾ*	'sheep'	*abagəʾ*
	ganen	'devil'	*aganənt*
CVCäC	*əzn*	'ear'	*əzän*
	əgr	'foot'	*əgär*
CVCäw	*əd*	'hand'	*ədäw*
	ab	'father'	*abäw*
	əḥʷ	'brother'	*aḥäw*

Most noun stems with four consonants, and a number of nouns with three consonants and at least one "long" stem vowel /i, e, o, u/, build their plural according to the so-called quadriliteral pattern:

CäCaCəC(t)	*dəngəl*	'virgin'	*dänagəl*
	mäsfən	'prince'	*mäsafənt*
	kokäb	'star'	*käwakəbt*
	mäskot	'window'	*mäsakut* (< *mäsakəwt*)
	dorho	'chicken'	*därawəh*
	lelit	'night'	*läyaləy*
	bəher	'earth'	*bähawərt*
	wəḥiz	'river'	*wäḥayəzt*
	qäsis	'priest'	*qäsawəst*

Note from the above that the inserted glide is not generally predictable from the nature of the vowel. Note also that in spite of numerous exceptions, there is a general tendency toward polarity in forms with optional *-t*: *-t* is added in the plural if it is absent in the singular (unless the noun is feminine), and dropped in the plural if it is present in the singular. Finally, an additional morphological plural marking occurs with all plural forms (suffix or internal) followed by possessive suffixes: an /i/ is inserted between the noun and the suffix. Thus corresponding to *ṣəgeyat* 'flowers', *abyat* 'houses' we have *ṣəgeyatina* 'our flowers', *abyatina* 'our houses'.

There is only one morphologically marked case form in Ge'ez, the accusative

construct. (Henceforth simply "accusative," it will be designated by "of" in glosses when it marks the "(possessive)" construct" configuration, otherwise by "acc.") The accusative is formed by suffixation of *-ä* (*-hä* with certain non-Ge'ez proper names) to the unmarked (henceforth "nominative") form of the noun: thus, nominative *bet* 'house', accusative *betä*. This form is used both for the direct object of a verb, as in: *särḥä nəgus bet-ä* 'the/a king built the/a house' ('built king[nom.] house-acc.'), and for the head (first) noun in the so-called "(possessive) construct" configuration, as in: *bet-ä nəgus* 'the/a house of the/a king' ('house-of king[nom.]').

In both constructions, morphological indication of case can be replaced by syntactic paraphrase. In the case of the direct object, the construction 'Verb Noun[acc.]' can be replaced by 'Verb + Obj.-Suff. *lä*-Noun[nom.]', where *lä* is the preposition 'to'. Thus instead of *särḥä betä* 'he made the/a house' one can have *särḥo* (< *särḥä+hu*) *lä bet* 'he made the house' (lit. 'he + made-it to-house'; note that the prepositional paraphrase tends to be preferred for definite direct object). For the (possessive) construct 'Noun₁[acc.] Noun₂[nom.]' there are two possibilities. Either 'Noun₁ *zä* Noun₂' (where *zä* is the relative pronoun), or 'Noun₁ + Poss.-Suff. *lä*-Noun₂'. Thus instead of *betä nəgus* one can have either *bet zä nəgus* or *betu* (< *bet+hu*) *lä nəgus* (where the last variant may be preferred for a definite head noun).

Adjectives and Participles

This morphological class includes: (1) general adjectives of many canonical shapes, for which we will use *šänay* 'beautiful' as typical; (2) a special class of quality adjectives of the base form sg. m. C*ä*C(C)*i*C (*ḥäddis* 'new', *'äbiyy* 'big'); (3) the present or active participle of the verb C*ä*CaCi (*nägari* 'speaker'); (4) the passive or intransitive participle of the verb C*ə*CuC (*nəgur* 'spoken').

In general, adjectives form the sg. f. by suffixing *-t*, pl. m. by suffixing *-an*, and pl. f. by suffixing *-at*, according to the following paradigm:

	Sg.	Pl.
m.	*šänay*	*šänayan*
f.	*šänayt*	*šänayat*

The active participle has a special pl. m. form:

	Sg.	Pl.
m.	*nägari*	*nägärt*
f.	*nägarit*	*nägariyat*

The passive participle and the C*ä*CC*i*C adjectives have a special sg. f. form:

	Sg.	Pl.
m.	*nəgur*	*nəguran*
f.	*nəgərt*	*nəgurat*
m.	*ḥäddis*	*ḥäddisan*
f.	*ḥäddas*	*ḥäddisat*

Some CäCCiC have a pl. c. like the active participle:

	Sg.	Pl.
m.	*'äbiyy*	*'äbbäyt*
f.	*'äbbay*	*'äbbäyt*

Case marking is as in the noun.

Deictics

The deictic relative paradigms are built on the stem series *z-* (singular, mostly masculine), *ənt-* (most feminine singulars), *əll-* (plural). Far deixis adds the element *-(k)ku*. Both near and far have a long form with suffix *-tu~ti~tä*, which can be used independently. The paradigm of the whole deictic–relative–interrogative series is given in Table 13.1.

Table 13.1   Ge'ez deictics

		Singular Nominative	Accusative	*Plural* Nominative	Accusative
'this'	m.	zə-	zä	əllu	
	f.	za	za	əlla	
'this (long)'	m.	zəntu	zäntä	əllontu	əllontä
	f.	zatti	zattä	əllantu	əllantä
'that'	m.	zəkku	zəkkʷä, zəkku	əlləkku	
	f.	əntəkku	əntəkkʷä əntäkku	əlləkku	
'that (long)'	m.	zəktu	zəktä	əlləktu	əlləktä
	f.	əntakti	əntaktä	əllaktu	əllaktä
relative	m.	zä-		əllä	
	f.	əntä		əllä	
'who?'		männu	männä		
'what?'		mənt	məntä		
'which?'		ay		ayat	ayatä

Numerals

The Ge'ez cardinal numbers show the expected Semitic polarity switch, with a *t*-suffixed form in the masculine, and an unmarked form in the feminine. In addition to these forms, Ge'ez has a great variety of derived forms, the most important of which are the ordinals (mostly of the CaCəC pattern), day-of-week/month forms

(*CäCuC* pattern), and adverbial forms ('once', 'twice' etc.; of the *CəCCä* pattern). For the numbers 1–10, these forms are as in Table 13.2. Note that for the numeral '2', except for the day nominalization, which uses the inherited Semitic root **θny*, the root has been replaced by **kilʾ-*, the Semitic word for 'both'. Other nominalizations involving '2' call upon lexical items *dgm* 'repeat' and *kʿb* 'double'. The ordinal for '1' uses the lexical item *qdm* 'precede'. The ordinals are the only place in Ge'ez morphology where one finds a survival of the common Semitic active participle of the form **CaːCiC > CaCəC*. The masculine cardinals have an accusative form in *-tä*, and have *-ti-* before suffix pronouns: *šälästä* 'three[acc.]', *šälästihomu* 'the three of them'. Feminine cardinals are usually treated as invariants. For numbers above ten the order is "Ten *wä* Unit": *ʿašärtu wä-šälästu, ʿašru wä-sälas* '13 m., f.'. The tens units are: *ʿəśra* '20', *šälasa* '30', *arbʿa* '40', *ḫamsa* '50', *səssa* '60', *säbʿa* '70', *sämanya* '80', *təsʿa* or *täsʿa* '90'; '100' is *məʾət*, '10,000' is *əlf* ('1,000' is *ʿašärtu məʾət*). The form cited for the ordinals is the sg. m.; there are alternate masculine forms in *-awi, -ay* (*ḫamsawi, ḫamsay* 'fifth[m.]'). Feminine ordinals end in *-it* or *-awit* (*ḫamsit, ḫamsawit* 'fifth[f.]').

Table 13.2   Ge'ez numerals

	Cardinal m.	f.	Ordinal	Day	Adverbial
1	aḥädu	aḥati	qädami	əhud	məʿrä, aḥätä
2	kəlʾe, kəlʾetu	kəlʾeti	dagəm, kaləʾ, kaʿəb	sänuy	kaʿbä, dagmä
3	šälästu	šälas	šaləs	šälus	šəlsä
4	arbaʿtu	arbaʿ	rabəʿ	räbuʿ	rəbʿä
5	ḫäməstu	ḫäms	ḫaməs	ḫämus	ḫəmsä
6	sədəstu	səssu	sadəs	sädus	sədsä
7	säbʿätu	säbʿu	sabəʿ	säbuʿ	səbʿä
8	sämäntu	sämani	samən	sämun	səmnä
9	təsʿätu, täsʿätu	təsʿu, täsʿu	tasəʿ	täsuʿ	təsʿä
10	ʿašərtu	ʿašru	ʿašər	ʿašur	ʿəśrä

Verbs

Following a general Semitic pattern, a Ge'ez verb form is basically a combination of one entry from each of two series of paradigms, here referred to as the Affix Paradigms and Stem Paradigm. The Affix series, given below, is a set of two subject paradigms for personal affixes agreeing in person, number, and gender with the subject. One of these is entirely suffixing and is used with past tense verb stems; important here is the characteristic Ethio-Semitic *-k* formative of the sg. 1 and 2nd person forms. Pre-object suffix forms are in parentheses (optional for sg. 2m.). The other subparadigm is predominantly prefixing, and is used with the nonpast and jussive verb forms.

		Singular	Plural
Past	1	-ku	-nä (-na-)
	2m.	-kä (-ka-)	-kəmu
	f.	-ki	-kən
	3m.	-ä	-u
	f.	-ät	-a
Nonpast	1	ə-	nə-
	2m.	tə-	tə-…-u
	f.	tə-…-i	tə-…-a
	3m.	yə-	yə-…-u
	f.	tə-	yə-…-a

The Stem series of paradigms governs the stem form to which the subject mark-ers are affixed. There are four basic morphological categories involved, which we will refer to as "root class," "tense," "derivational class," and "lexical class." The root class categories are: "weak": verbs whose roots have a glide or vocalic radical and "strong" verb roots whose radicals are fully consonantal. The primary "tense" categories are past, nonpast, jussive, imperative. The imperative stem is identical with the jussive stem in Ge'ez, and hence will not be noted in the paradigms (see Table 13.3). Infinitives and converbs are not tense categories in any usual morpho-syntactic sense of the term, but it will be useful to display infinitives in the paradigm as a fourth "tense" form. The derivational classes are: Base (zero af-fix), Causative (prefix ä-), Passive Reflexive (prefix tä-, if not preceded by a sub-ject prefix, otherwise t-), Causative Passive (prefix astä-). These derivational classes are formed, with more or less idiosyncratic semantics, with all verbs in the lexicon, although not all verbs occur in all derivational classes.

Historically related to the various Semitic verbal derivation systems, but almost completely lexicalized in Ge'ez, are the categories of lexical class, conventionally designated in Ge'ez with the letters A, B, and C. A is the unmarked class. In the Base past and jussive there are two subclasses: A1 has stem vowel /ä/ in the past and stem vowel /ə/ in the jussive, whereas A2 has stem vowel /ə/ in the past and /ä/ in the jussive. Recalling that Ge'ez /ə/ represents Semitic /*i, *u/, this clearly corresponds to the common stem vowel alternations (e.g., in Arabic): past CaCaC ~ present jussive CCuC, past CaCiC ~ present jussive CCaC. Note that some verbs can be A1 in the past and A2 in the jussive, and vice versa. B is the class of verbs with geminating middle radical (pi'el in Hebrew, D-stem in Akkadian, Form II in Arabic); C is the class of verbs with stem vowel /a:/ after the first rad-ical consonant (Form III in Arabic). Unlike other Semitic languages, these do not occur in Ge'ez as derived forms of the unmarked base, but as a lexically deter-mined class. A verbal entry must be marked in the lexicon as either class A, class B, or class C in Ge'ez, and if it occurs in one class, will not occur in another (the few cases where this occurs are usually counted as homophonous). An exception to this general rule is the class of passive reflexive C (tänagärä, cognate with

Form VI of Arabic) and causative passive C (*astänagärä*) which occur with many verbs, the former frequently as a reciprocal, the latter with widely varying semantics. Given the existence of this set of lexically determined categories, it is convenient to enter quadriradical verbs (verbs with four root consonants) under this general heading as lexical class D. These verbs are especially frequent in Ethiopic Semitic. There are only a few cases where they can be etymologically linked to triradical verbs, but phonologically most of them are either of the form $C_1RC_2C_3$ (R = /n, l, r/) or of the form $C_1C_2C_3C_3$, where C_1, C_2, C_3 otherwise follow the cooccurrence constraints of triconsonantal roots. As is often the case in Semitic, these D (quadriradical) verbs closely resemble B (middle-geminating) verbs in their morphological structure.

Table 13.3 gives the stem paradigms for the so-called strong verbs. The lexical items used are: *ngr* 'speak (Class A1)', *lbs* 'wear (Class A2)', *fsm* 'finish (Class B)', *msn* 'perish (Class C)', *dngs* 'surprise (Class D, quadriradical)'. Note that the infinitive forms in /t/ are functionally equivalent to the short forms, but are more likely to be used when the infinitive requires a suffix pronoun or an accusative case marker. As in all other Semitic languages, Ge'ez has a smaller but important class of weak verbal roots (including a number of high frequency, basic lexical items such as "stand," "die," "drink," "put") which deviate from the pattern of the strong paradigms by showing a glide or vocalic configuration at one or more of the root consonant positions. In Ge'ez these roots can be schematized according to glide variant, /w/ or /y/, and root position, 1, 2, or 3: thus "W2", "Y3" – note that "Y1" verbs are very few in number, and have been largely regularized. Table 13.4, p. 254 gives the stem paradigm for the finite Base A form of triconsonantal glide roots, using the lexical items *wrd* 'descend', *wdq* 'fall', *mwt* 'die', *ŝym* 'appoint', *ftw* 'love', *bdw* 'be desert', *bky* 'cry', *sty* 'drink'. The other lexical and derivational classes are straightforward extensions of the Base A form. Note that for W/Y2 A, there is no distinction between subclass 1 and 2.

Verbs which have a laryngeal (henceforth H = /ʾ, ʿ, ḫ, ḥ, h/) as a radical largely follow the strong pattern, as modified by the special vowel–laryngeal sequence constraints noted in Phonology, p. 245. Thus for H1: sg. 3m. past *ʿäqäbä* 'he kept', present *yäʿäqqəb* (< *yəʿäqqəb*, by laryngeal vowel harmony). Many H2 behave completely like strong roots, as *sähäbä, sähäbkä* 'he/you[sg. m.] pulled', however an important subclass of these verbs have a past stem vowel pattern with /ə/ throughout: *səhtä, səhətkä* 'he/you[sg. m.] erred' (contrast non-laryngeal *läbsä* < *läbəsä* < *labisa*, but *läbäskä*). The present shows the regular laryngeal modification of the strong pattern, and jussive is with /ä/ for both of these subclasses: *yəsəhhəb, yəshäb; yəsəhhət, yəshät*. H3 verbs of the A class have the idiosyncracy that they are all of the A2 (*läbsä*) subclass: *wäḍʾä, wäḍaʾkä* 'he/you[sg. m.] left'. In addition H3 verbs of the B, C, and D class have the unique property in the Ge'ez conjugation system of also having a *läbsä*-like pattern in the past: *läqqəhä, läqqahkä* 'he/you[sg. m.] lent', *baləhä, balahkä* 'he/you[sg. m.] rescued', *zängəʿä, zängaʿkä* 'he/you[sg. m.] raved'.

Finally, there are a dozen or so verbs, most with glide or laryngeal radicals (see

Table 13.3 Strong verb stem paradigms

		Base	Causative	Passive Reflexive	Causative Passive
Past	A1	nägär-	angär-	tänägr-	astängär-
	A2	läbs-	albäs-	tälabs-	astälbäs-
	B	fäṣṣäm-	afäṣṣäm-	täfäṣṣäm-	astäfäṣṣäm-
	C	masän-	amasän-	tämasän-	astämasän-
	D	dängäṣ-	adängäṣ-	tädängäṣ-	astädängäṣ-
Present–Future	A	-näggər(-)	-anäggər(-)	-tnäggär(-)	-astänäggər(-)
	B	-feṣṣəm(-)	-afeṣṣəm(-)	-tfeṣṣäm(-)	-astäfeṣṣəm(-)
	C	-masən(-)	-amasən(-)	-tmasän(-)	-astämasən(-)
	D	-dänäggəṣ(-)	-adänäggəṣ(-)	-tdänäggäṣ(-)	-astädänäggəṣ(-)
Jussive	A1	-ngər(-)	-angər(-)	-tnägär(-)	-astängər(-)
	A2	-lbäs(-)	-albəs(-)	-tläbäs(-)	-astälbəs(-)
	B	-fäṣṣəm(-)	-afäṣṣəm(-)	-tfäṣṣäm(-)	-astäfäṣṣəm(-)
	C	-masən(-)	-amasən(-)	-tmasän(-)	-astämasən(-)
	D	-dängəṣ(-)	-adängəṣ(-)	-tdängäṣ(-)	-astädängəṣ(-)
Infinitive	A	nägir(ot)	angəro(t)	tänägro(t)	astänägro(t)
	B	fäṣṣəmo(t)	afäṣṣəmo(t)	täfäṣṣəmo(t)	astäfäṣṣəmo(t)
	C	masno(t)	amasno(t)	tämasno(t)	astämasno(t)
	D	dängəṣo(t)	adängəṣo(t)	tädängəṣo(t)	astädängəṣo(t)
Converb	A	nägir-	angir-	tänägir-	astänägir-
	B	fäṣṣim-	afäṣṣim-	täfäṣṣim-	astäfäṣṣim-
	C	masin-	amasin-	tämasin-	astämasin-
	D	dängiṣ-	adängiṣ-	tädängiṣ-	astädängiṣ-

Table 13.4 Weak verb stem paradigms

		Past	Present	Jussive
W₁	A1	wäräd-	-wärrəd(-)	-räd(-)
	A2	wädq-	-wäddəq(-)	-däq(-)
W₂	A	mot-	-mäwwət(-)	-mut(-)
Y₂	A	śem-	-śäyyəm(-)	-śim(-)
W₃	A1	fätäw/fäto-	-fättu(-)	-ftu(-)
	A2	bädw-	-bäddu(-)	-bdäw(-)
Y₃	A1	bäkäy-	-bäkki(-)	-bki(-)
	A2	säty-	-sätti(-)	-stäy(-)

the convenient list in Lambdin 1978: 450f.), which show one or more idiosyncratic irregularities in stem paradigm. The only one we will mention here is the unique (and archaic) conjugation pattern of the verb *bhl* 'say' in its base form (the derived class forms are conjugated regularly). Instead of an expected past tense *bəhlä (compare *kəhlä* from *khl* 'be able') this verb has a **prefixing** past tense, the only survival of this archaic form in Ethiopic Semitic, with stem *-be* in non-suffixed forms, *-bel-* in suffixed: *yəbe, yəbelu* 'he/they said'. The present stem of this verb is *-bəl(-)*, and its jussive is *-bal(-)*: *yəbəl* 'he says', *yəbal* 'let him say'

(compare *yəkəl* 'he can', *yekal* 'let him be able').

Adverbs and Prepositions

A number of adverbs are productively formed from accusatives (suffix *-ä*) of nouns and adjectives: *lelitä* 'by night', *qədmä* 'in front', *rəḥuqä* 'afar', *märirä* 'bitterly'. The same suffix (*-ä*), this time from a construct-like configuration, is also the norm for many conjunctions: *əmmä* 'if', *sobä* 'when', *änbälä* 'except', *ənzä* 'while', *əskä* 'until', *əsmä* 'because'. On the other hand, an adverbial (hence nominal) origin seems probable for some prespositions: *maʾkälä* 'between' (from 'middle'), perhaps also *mängälä* 'towards' (nominal form of some root '*ngl*' – etymology not clear. Most of the usual prepositions end in *-ä* before nouns, and *-e* before pronominal suffixes: *ḥäbä ~ ḥabe-* 'to, towards', *dibä ~ dibe-* 'on', *məslä ~ məsle-* 'with' (e.g., *məslä säbʾ* 'with (the) man', *məslehu* 'with him'). Special cases: *əmənnä* (proclitic form *əm-*) *~ əmənne-* 'from', *kämä ~ käma-* 'like', *wəstä ~ wästet-* 'in', *ʿäwdä ~ ʿäwdä-* 'around'; *əskä* 'until, up to' and *əntä* 'through' do not occur with pronominal suffixes. The monosyllabic prepositions are proclitic: *bä-* 'in' (*bə-* before 1st and 2nd person pronouns, 3rd person singular *bo ~ bottu*, *ba ~ batti*), *lä-* 'to' (except *litä* 'to me', *lottu* 'to him', *latti* 'to her', *lon ~ latton* 'to them[pl. f.]'). Compound prepositions such as *bä-qädmä* 'in front of' are common.

Syntax

The examples in the following section are almost all from the Ge'ez Bible, still on the whole our most reliable source of Ge'ez language data. Most of these examples can be found in the context of a larger collection of data in the excellent syntax section of Dillmann (1907). After each translation will be found a word for word (and to a certain extent morpheme for morpheme) gloss; syntactically relevant morphological material which cannot be conveniently "linearized" will be given in square brackets ("[ ]").

Word Order

The unmarked main clause word order in Ge'ez is Verb Subject Object: *wä-räkäbä Yosef mogäs-ä bäqädmä əgziʾ-u* 'and Joseph found favor before his lord (and-found-sg. 3m. Joseph favor-acc. before lord-his)'. Ge'ez however has a large repertory of word order possibilities. Subject Verb Object order can correspond to emphasized subject: *əgziʾäbḥer wähäb-ä-kəmu z-ä-ʿəlät-ä sänbät* '**God has given you this Sabbath day** (God gave-sg. 3m.-you this-acc.-day-of sabbath)'. The fronted subject is often marked with the enclitic conjunction *-s(s)ä*: *abäw-i-na-ssa bä-zəntu däbr sägäd-u* '**our fathers** worshiped on this mountain (fathers-pl.-our-as-for in-this mountain worshiped-pl. 3m.)'. This word order occurs often in subordinate, for example in *əsmä* clauses: *əsmä ab yafäqqəd wäld-o* 'for the father loves his son (for father loves son[acc.]-his)'. Verb Object Subject order can occur where there is verb-first word order, and at the same time the verb and its

object form a tight semantic, quasi-lexical unit, as in the expression 'cast one's eyes' in: *wä-wädäy-ät aʿyənt-i-ha laʿlä Yosef bəʾsit-ä əgziʾ-u* 'and the wife of his lord cast her eyes upon Joseph (and-cast-sg. 3f. eyes-pl.-her upon Joseph woman-of lord-his)'. In the following case of Verb Object Subject order, noted by Dillmann, there may be a question of an overlapping syntactic configuration in which "Noah" is subject both of the first (main) clause and of the second (relative): *a-rḫäw-ä mäskot-a lä-tabot Noḥ əntä gäbr-ä* 'Noah opened the window of the Ark which he had made (cause-open-sg. 3m. window-her to-ark Noah rel.-sg. f. made-sg. 3m.)'. Finally, Object Verb word order may be conditioned by the topic role of the object: *ḫäṭiʾät-əyä ə-zzekkär yom* 'I remember today my sin (sin-my sg. 1-remember today)'. Object Verb word order can also be found more frequently in various kinds of relative clause – *wä-zä-ssä ṣädqä yə-gäbbər* 'and whoever does justice (and-rel.-but justice-acc. sg. 3m.-do)'.

The word order in the noun phrase generally follows the pattern seen in many Subject Object Verb languages, according to which quantifiers, numerals, and demonstratives precede the head noun, and adjectives and relatives follow. Here also a good deal of variation is possible: thus *ʿäbiyä ṣəqayä* 'great torment' in Genesis 12:17, but *ḥəzbä ʿäbiyä* 'great people' in Genesis 18:18. Note especially a tendency for short stative relative clauses (see below), which are frequently used as quasi-adjectival modifiers, to occur in pre-nominal position: *zä-yäʿäbbi bərhan wä-zä-yənəʾʾəs bərhan* 'a greater light and a lesser light (rel.-be + great light and-rel.-be + small light)', *zä-yäśenni wäyn-ä* 'the good wine (rel.-be + good wine-acc.)', *kʷəllo zä-wəstä sämay gəbrä* 'all creation in heaven (all[acc.] rel.-in heaven creation[acc.])'.

Agreement

As a rule, as can be seen in many examples in this section, modifiers agree with head nouns in gender, number and case. For numbers, note that beyond the number 2, the masculine form of the numeral has the *-t-* formative characteristic of feminines, which in turn is uniformly absent from the feminine forms: *säbʿätu aḥäw* 'seven brothers', *säbʿu dänagəl* 'seven virgins'. Note also that while the head noun in numeral phrases is usually in the plural, as in the preceding examples, it can sometimes be in the singular (especially with inanimate or mass nouns): *säbʿu ḥəbəst* 'seven loaves (seven loaf)'. In general, although grammatical gender is very much a feature of the language, Ge'ez seems to be developing toward a system of natural gender. While genders are consistently distinguished for animate beings, even the best texts show a certain amount of fluctuation where inanimates are concerned: *mədr śänayt* '(land beautiful[f.])' in Mark 4:8, but *mədr śänay* '(land beautiful[m.])' in Mark 4:13.

The general rule for verbs is that they agree with their subjects in person, gender, and number: *tä-wäld-a l-omu awaləd śänay-at* 'beautiful daughters were born to them (passive-born-pl. 3f. to-them children beautiful-pl. f.)'. Here also, a tendency to natural gender can be seen: *wä-konä dəqät-u ʿäbiy-ä* 'and his fall was great (and-was-sg. 3m. fall[sg. 3f.]-his great[sg. 3m.-acc.])', *raʾyat dibe-yä*

wädäqu 'visions fell upon me (visions[pl. 3f.] upon-me fell-pl. 3m.'. On occasion plural subjects can have a verb in the sg. 3f.: *ḫäṭawəʾ-i-homu ʿäby-ät* 'their sins were great (sins[pl. f.]-pl.-their be + great-sg. 3f.)'; and, as noted by Dillmann, in a number of instances a sg. 3m. verb in initial position is found with a plural subject: *ḫäläf-ä mäwaʿəl-i-hu* 'his days passed (passed-sg. 3m. days-pl.-his)'.

Negation

The usual negation, both of simple propositions and commands, is with the particle *i* (< *ʾal* by palatalization > *ʾay* reduced to *ʾəy* – a form attested in the Aksum inscriptions), usually procliticized to the main verb of the clause: *nəḥnä i-nə-kəl ḥäwir-ä* 'we cannot go (we not-pl. 1-can[pr.] go[inf.]-acc.)', *i-təqtəlu näfs-o* 'do not kill him (not-kill[pl. 2m. juss.] soul[acc.]-his)'. This particle can also be used to negate individual clause constituents, or non-verbal predicate elements: *i-konkä Krəstos-ha wä-i-Elyas-ha wä-i-näbiy-ä* 'you were not Christ nor Elias nor a prophet (not-were-sg. 2m. Christ-acc. and-not-Elias-acc. and-not-prophet-acc.)', *i-qätil-ä näfs i-tämaḥzo i-säriq* '[list of commandments] not to kill, not to commit adultery, not to steal (not-kill[inf.]-of soul not-commit + adultery[inf.] not-steal[inf.])'. It is also productive in the formation of negative lexical items: *iyaʾməro* 'ignorance (< *i-aʾməro* 'not-knowledge'). A stronger negation of non-verbal constituents is possible with *akko*, which can also be used in conjunction with *kəmmä* 'only, just': *akko bä-ḥabəst kəmmä* 'not by bread alone'. Note that an emphatic negation of a clause can be obtained by using *akko* with a relativized verb: *akko zä-motät ḥəḍan* 'the child has **not** died (not rel.-died child)' versus a possible *i-motät ḥəḍan* 'the child did not die (not-died child)'. The usual lexical items for negation and affirmation are: *əwwä* 'yes (general)', *oho* 'yes (to command)', *ənbiyä* 'no'. See p. 260 on the negative expression *albo*.

Questions

Yes–no questions are formed by suffixing *-nu* or *-hu* to the first constituent of the sentence, which thereby becomes the foregrounded element: *zänt-ä-nu gäbär-ki* 'did you do this? (this-acc.-interr. did-sg. 2f.)', *əmənnä säbʾ-ä ziʾä-nä-nu antä aw əmənnä ḍärr-nä* 'are you **from our own men** or from our enemy? (from man-of own-our-interr. or enemy-our)'. The interrogative particle after the verb in unmarked clause-initial position in principle corresponds to interrogation over the whole clause: *yəqäśśəmu-hu əm-aśwak askal-ä* 'do they gather grapes from thorns? (gather[pl. 3m.]-interr. from-thorns grapes-acc.)'. However, to signify unambiguously that the whole clause is in the scope of the interrogation, the clause can begin with *bonu* 'is it that (exists-interr.)' with a normal or relativized verb: *bo-nu əbn-ä yəhub-o* 'will he give him a stone? (exists-interr. stone-acc. gives-him)', *bo-nu kaləʾ-ä zä-nə-sseffo* 'shall we look for another? (exists-interr. other-acc. which-we-look + for[< *-tseffäw* passive B])'.

WH-questions are formed with the interrogative pronouns (*männu, mənt*, see p. 250) or the interrogative adverbs (principally: *ayte* 'where', *əfo* 'how', *maʾze* 'when' – 'why' is *lä-mənt* [to-what]). Note the use of the pronouns as "governing"

noun in a construct configuration: *wälätt-ä männu anti* 'whose daughter are you (daughter-of who you[sg. 2f.])', and its quasi-adjectival use in apposition to a head noun: *mənt-ä ʿäsb-ä bəkəmu* 'what reward will you have? (what-acc. reward-acc. in-you [see p. 260])'.

Coordination, Condition

The usual coordinating particle for conjunction in Ge'ez is *wä-*, which procliticizes onto the following lexical item (many examples above). In addition to a lexical inventory of particles for other relations of coordination (including *aw* 'or', *alla* 'but', *ənga, ənka* 'then, so'), a characteristic feature of Ge'ez syntax is the use of enclitic coordinating and foregrounding particles which, frequently in conjunction with *wä-*, set off and relate clauses and clause constituents: *-(s)sä* 'but, on the one hand', *-hi* 'also', *-ni* 'even', *-mä* '(emphasis)', *-ke* 'thus' – where the glosses are meant simply to give an approximate idea of the particles' syntactic and discourse functions. Two well-known examples: *bäkämä bä-sämay wä-bä-mədr-ni* 'on earth as it is in heaven (as in-heaven and-in-earth-also)', *qal-(ə)ssä qal-ä Yaʿqob wä-ʾədäw zä-ʿesaw* 'as for the voice, it is the voice of Jacob, but the hands are those of Esau (voice-but voice-of Jacob and-hands rel.-Esau)'.

For constructions of the form "Clause₁ and Clause₂" where "and" means "and then", and not arbitrary conjunction ("he opened the door **and** walked in" vs. "he spoke French **and** rode horseback") Ge'ez uses a construction type widespread in Semitic and non-Semitic Ethiopian languages sometimes called "conjunctive" or "converb" ("perfective active participle" in Lambdin 1978). In Ge'ez it consists of the infinitive-like converb form of the verb (see the paradigm for the strong verb in Table 13.3, p. 254) in the accusative, with possessive suffix for subject in one of the clauses (usually the first) and a finite verb form in the second; the tense and mode interpretation of the converb verb are those of the finite. The construction is most frequently used to signify temporal priority of the converb clause: *wä-sämiʿ-o Herodəs dängäḍ-ä* 'and Herod heard (this) and was alarmed; and having heard this, Herod was alarmed (and-hear[converb, acc.]-his Herod be + alarmed-sg. 3m.)', *häwir-ä-kəmu täsäʾäl-u* 'go and ask (go[converb]-acc.-your[pl. 2m.] ask[imp.]-pl. 2m.)'. But the construction can also be used for relations of simultaneity and manner: *täʿägiś-ä-kä aḍməʾ-(ä)ni* 'hear me patiently (be + patient[converb]-acc.-your[sg. 2m.] hear[imp., sg. 2m.]-me)'.

Finally, clauses can be coordinated in a conditional relationship. Real conditions introduce the protasis clause with *əmmä*, and usually uses the past tense form: *əmmä ḥädäg-o yə-mäwwət* 'if he leaves him, he will die (if leave[past, sg. 3m.]-him sg. 3m.-die[pr.])'. Contrary-to-fact conditionals use *sobä* (usually 'when') and the past tense in the protasis, and *əm-* with a past tense verb in the apodosis, if it comes after the protasis, otherwise a simple past tense verb: *sobä nägär-kä-ni əm-fännäw-ku-kä* 'if you had told me, I would have sent you (when tell[past]-you[sg. m.]-me then-send[past]-I-you[sg. m.])', *ḥäyäs-ä-nä sobä mot-nä bä-bäher-ä Gəbṣ* 'it would have been better for us if we had died in the land of Egypt (be + better-sg. 3m.-us when die[past]-we in-land-of Egypt)'.

Subordinate Constructions

In certain circumstances, especially with perception verbs, object clauses can be put in simple parataxis with main clauses: *rə'y-ä tä-sätq-ä sämay* 'He saw the heavens split (saw-sg. 3m. passive-split[past]-sg. 3m. heaven)', *räkäb-o yə-qäwwəm* 'he found him standing (find[past, sg. 3m.]-him sg. 3m.-stand[pr.])'. Otherwise object clauses with verbs of speech, cognition have are introduced by one of a number of conjunctions, the most common of which are *kämä* 'that', *əsmä* 'because', *ənzä* 'while': *a'mär-ä kämä tä-nätg-ä may* 'he knew that the waters had receded (knew-sg. 3m. that passive-recede-sg. 3m. water)'. The verb *mäsälä* 'seem', which takes a relativized verb, is exceptional: *mäsäl-omu zä-tä-häwwər häbä mäqabər* 'it seemed to them that she was going to the tomb (seemed[sg. 3m.]-them rel.-she-go[pr.] to tomb)'.

Ge'ez, unlike some other Semitic languages, does not restrict the jussive to main clauses; object clauses of verbs of volition and purpose usually have their verbs in the jussive. The clause may or may not be introduced by *kämä*: *fäqäd-ä kämä tə-ba'* 'he wanted you to come (wanted-sg. 3m. that sg. 2m.-come[juss.])', *fätäw-u yər'äyu* 'they desired to see (desired-pl. 3m. see[juss. pl. 3m.])', *mäş'-ä yə-r'äy* 'he came to see (came-sg. 3m. sg. 3m.-see[juss.]'. Finally, a number of verbs, notably *kəhlä* 'be able', *dägämä* 'repeat, do again' use the accusative of the infinitive in their object clauses: *i-yə-kəl hädig-ä abu-hu* 'he cannot leave his father (not-sg. 3m.-can leave[inf.]-acc. father-his)', *dägäm-ku nägirot-ä-kəmu* 'I spoke to you again (repeated-I speak[inf.]-acc.-you)'.

Relative clauses, as have been seen above, are related in a rather straightforward fashion to the head noun of their noun phrase by a relative particle, which may agree with it in gender and number (sg. m. *zä-*, sg. f. *əntä*, pl. *əllä*), or use the sg. m. *zä-* as an invariant. However there are a number of different patterns of agreement between the head noun and pronominal elements within the relative clause. When the head noun is also subject of the verb, it of course shows concord with the verb's subject marker: *bə'si zä-yä-häwwər* 'the man who comes (man rel.[sg. m.]-sg. 3m.-come)'. When the head noun is the object of the relative verb, it is normally represented by an object suffix on the verb: *ahzab zä-antəmu tə-twärräs-əw-omu* 'the peoples which you will inherit (peoples rel.[sg. 3m.]-you[pl. 2m.] you-inherit[pr.]-pl. m.-them)'. However this is not obligatory; in the following example the choice of an indirect object suffix on the verb makes the inclusion of a direct object suffix impossible in any case: *mədr əntä wähäb-ä-kä* 'the land which he gave you (land rel.[sg. f.] gave-sg. 3m.-sg. 2m.)'.

Similarly, when the head noun is object of a preposition in the relative clause, it is normally represented by a pronominal object: *mədr əntä bä-wəstet-a tä-wäld-ä* 'the land in whose midst he was born (land rel.[sg. f.] in-midst-her passive-born-sg. 3m.)'. Here also the pronominal object can be dropped, leaving a "dangling" preposition: *mədr əntä häbä mäşa'-nä* 'the land to which we have come (land rel.[sg. f.] to come-we)'. Perhaps as a consequence of this, we find rather frequently in Ge'ez relative clauses with the preposition shifted in front of the relative pronoun: *mäwa'əl-i-hu bä-zä astär'äy-omu kokäb* 'the days on which the star

appeared to them (days-pl.-his in-rel.[sg. m.] appeared-them star)'. And there are even instances of use of the shifted preposition and preposition with object pronoun in the same clause: *bäträ-kä bä-zä bott-u zäbäṭ-kä* 'your stick with which you beat (stick-acc.-your in-rel. in-it beat-you)'.

'Be' and 'Have'

For simple present tense predication, the independent pronoun functions as copula in Ge'ez: *märet antä* 'you are dust (dust you)', *männu wǝ'ǝtu zǝntu* 'who is this? (who he this)', *zati yǝ'ǝti šǝr'ät-ǝyä* 'this is my law (this she law-my)'. Sometimes the sg. 3m. pronoun can function as a default copula: *antǝmu wǝ'ǝtu bǝrhan-u lä-'aläm* 'you are the light of the world (you[pl. 2m.] he light-his to-world)', *ana wǝ'ǝtu* 'it is I (I he)'. When tense or modal distinctions are necessary, the verbs *konä* and *hälläwä* are used. Note that the nominal or adjectival complement of these verbs is in the accusative case: *ǝ-käwwǝn nǝṣuḥ-ä* 'I will be pure (I-be pure-acc.)'.

These later verbs are used also for 'be in a place' and 'exist', but a characteristic feature of Ge'ez is the use of the preposition *bä-* 'in' plus the sg. 3m. suffix pronoun, *bo* or *bottu*, literally 'in it' to signify 'exists' (with predicate in the accusative): *b-o ḥǝḍwan-ä* 'there are eunuchs (in-it eunuchs-acc.)'. The negative form of this expression, *albo* 'there is not (not-in-it)', contains the only survival in Ge'ez of the Proto-Ethio-Semitic form of the negative particle: *albo ṣǝdq-ä* 'there is no justice (not-in-it justice-acc.)'. Both the positive and negative forms are widely used in forming indefinite expressions: *bo zä-yǝmäṣṣä'* 'someone is coming (exists rel.-comes)', *albo zä-tärfä* 'no one was left (not-exists rel.-remained)'.

In an extension of this existential expression *bä-* plus pronominal suffix yields the ordinary Ge'ez construction for 'have': *mäṣḥaf-ä bǝ-nä* 'we have a book (book-acc. in-us)', *b-ati ǝḥw-ä* 'she has a brother (in-her brother-acc.)', *bǝ'si b-ottu kǝl'et-ä wǝlud-ä* 'a man has two sons (man in-him two-acc. sons-acc.)'. The negation of 'have' is simply *al + bä +* pronominal suffix: *ganen-ä al-bǝ-yyä* 'I do not have a devil (devil-acc. not-in-me)'.

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PART III

MODERN SEMITIC

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14 Arabic Dialects and Maltese

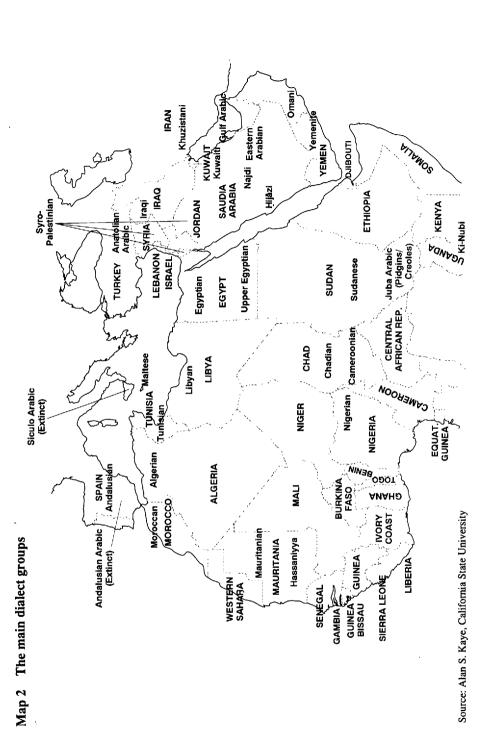## Alan S. Kaye and Judith Rosenhouse

All the data cited are in a uniform IPA-based transcription with the exception of Maltese, which is cited in its standard orthography.

When dealing with dialects, a fundamental question is how they should be defined. Exactly which and how many features are sufficient for a language's many subsystems to be described as distinct dialects or languages? Occasionally, when languages are in contact, they diverge through pidginization and creolization as, e.g., creole Arabic in East Africa, Ki-Nubi, and Juba Arabic of the southern Sudan. According to Versteegh (1984), all the modern Arabic sedentary dialects stem from pidgin Arabic.

Arabic dialects may be considered languages, comparable to the Romance situation. Peripheral Arabic dialects such as Uzbeki Arabic, Maltese, Juba Arabic and Ki-Nubi, Afghan Arabic, the extinct Andalusian (Spanish) Arabic, are more divergent than the mainstream Middle Eastern or North African dialects. Maltese, though often called Maltese Arabic, has in fact developed into a new language in its own right, unlike all other Arabic dialects, in that it is a national language with a non-Arabic writing system. Due to its isolation since the thirteenth century, it is also free from diglossia (see p. 267). (Modern South Arabian languages such as Jibbaali (Sheri) or Soqotri belong to a different group within Semitic, i.e., South Semitic, whereas Arabic is Central Semitic.)

It is usually believed that the larger the intercommunal geographical distance or isolation among dialects, the greater the linguistic differences among them, too. These are not the only factors, however, in dialect development as sociolinguistic factors also have come into play (see pp. 265–267). Mutual intelligibility remains, however, the **most** important consideration in dialect recognition.

Most comprehensive bibliographies available in comparative Arabic dialectology include Sobelman (1962) and Bakalla (1975, 1983). This chapter presents comparative Arabic dialectology from a double perspective, namely the major structural phenomena of Arabic dialects which form their internal makeup, as well as traits which set them apart. Map 2 shows the main dialect groups. We focus on the synchronic rather than the historical perspective. Each section first depicts the

Map 2 The main dialect groups

Source: Alan S. Kaye, California State University

common features of the major dialects and then discusses and illustrates linguistic issues pertaining to phonology, morphology, syntax and lexicon.

Our starting point is often Cairene, which is in a central location in the Arabic world and has much prestige among speakers of other Arabic dialects. We also consider the major dialects of Syria–Lebanon, Mesopotamia, the Arabian Peninsula, North Africa and elsewhere. Features of sub-Saharan African dialects and Maltese are also mentioned.

Dialect Geography: Eastern vs. Western Dialects

Though Arabic originally developed in Arabia, its speakers spread it eastward, northward and westward, along with Islam, from the seventh century CE. Following the doctrine of the "wave theory," dialects nearer the original center are more similar among themselves than ones at more distant locations. Much of the literature describes Arabic dialects from the viewpoint of the East–West dichotomy.

The Eastern dialects include the Arabian Peninsula (Saudi Arabia, Yemen, Kuwait, Oman and the United Arab Emirates), along with Mesopotamia (Iraq), the Syrian–Lebanese–Palestinian area as well as Jordan, Israel and Egypt. There are also some Arabic dialects quite distinctly removed and with few speakers; e.g., in Afghanistan and Uzbekistan. The isolated and nearly extinct Arabic dialect of Kormakiti (Cyprus) has been assumed to be related to Lebanese.

The Western group includes the dialects to the west of Egypt, namely Libyan, Tunisian, Algerian, Moroccan, and Mauritanian. Andalusian Arabic and Siculo Arabic (both extinct) also belong to this group. In Eastern Arabic are included, however, also the dialects of the Sudan, Chad and even Nigeria. In the latter there are many Arabic dialects spoken by parts of the respective populations with varying amounts of influence by local (e.g., Nilo-Saharan) languages, although a few affinities are shared with Western Arabic. As a whole, Sudanese dialects, at least those in the north, form one macro-grouping with the Egyptian dialects. Maltese is normally considered Western for it seems to be genetically related to Tunisian Arabic; however, some Eastern features (e.g., ' for the *qaaf*, *'imaala*) complicate the picture.

Differences among Eastern and Western dialects exist on all linguistic levels. Phonetically, the latter have lost many short vowels and reduced long vowels (as a result of Berber substratum). This change is typical of Tunisia, Algeria, Morocco, but rarely occurs elsewhere in Africa (Libya, the Sudan or Egypt). In addition, in many of these Western dialects the phonemic distinction between *s* and *ṣ* as well as between *z* and *ẓ* has been lost, unlike their parallels in the East. The main morphological difference lies in the imperfect prefixes: in the West (up to the Delta in Egypt) there is an innovative symmetrical *n-* for the sg. 1 and pl. (*nəktəb-nəktəbu* 'I/we write', respectively), while in the East only the pl. has *n-* (*'aktib-niktib*, id.). Furthermore, in the West, pl. verbs (including pl. 1f.) end with *-u*, which is missing from the parallel pl. 1 in the East. Syntactic differences are not numerous and often relate to lexical items used in certain syntactic roles; e.g., *illi* vs. *(id)di* 'that, which' (relative particles), or *'iza, 'iδa* vs. *'ila* 'if' in the East and West respectively.

The Basic Dichotomy: Bedouin vs. Sedentary Dialects

Even in olden times Arabic was a conglomerate of different dialects. The modern varieties continue the two basic sociolinguistic elements, namely the speaker's nomadic or sedentary backgrounds. On the one end there are typical urban (sedentary) dialects, and on the other, the bedouin ones. Between these two extremes exist degrees of bedouin/sedentary mixtures. The complex features of a dialect often reflect its bedouin/sedentary-type history.

The sedentary dialects, in all likelihood, evolved from a mixture of some original (Arabian) Arabic variety with a non-Arabic substratum while the bedouin-type dialects are of "less mixed" origin. Modern bedouin dialects in the Arabian Peninsula consist of a number of different groups. Such groups also existed in pre-Islamic times, with at least the Hijaaz and Tamiim dialects.

Bedouin remained more isolated from external influences than sedentary dwellers. Thus bedouin dialects preserve many old features, which are also similar to those of Classical Arabic (CA), and are today more conservative than sedentary dialects. One example of this cleavage is the Mesopotamian split between the gələt and qəltu groups, named after basic phonetic and morphological characteristics (see Blanc 1964).

Among the basic features of bedouin dialects there are the voicing (and fronting) of old Arabic *q (which usually becomes q, j, or dz); the tendency toward emphasis; the "gahawa/bṣala syndrome" of syllable structure (see p. 280), which affects verbs, nouns and adjectives more or less alike, and residues of syntactic case endings. Also, in bedouin dialects gender is usually kept more intact in plural pronouns than in sedentary dialects. Syntactic differencs are few; e.g., modal structures and distributions. Lexical variation between sedentary and bedouin dialects is considerable (see p. 308). Identical lexemes may have different meanings in sedentary and bedouin dialects (e.g., daḥraj 'see' in Galilean bedouin vs. 'roll something' in the sedentary Palestinian dialects, as in MSA (Modern Standard Arabic); Rosenhouse, 1984). Also, many bedouin lexemes are known in CA and are not used in sedentary dialects (e.g., ḥusaam 'sword', an-nišaama 'the brave men, warriors', baᶜiir 'camels' in the Galilean bedouin dialects).

Communal Dialects: Muslim, Christian and Jewish Dialects

Religion (Islam, Christianity, Judaism) is the basis for the communal sociolinguistic division of Arabic dialects. As each of the religions has in the course of history split into sects, there are more than three communal dialects. Thus in Lebanon, e.g., Shiite dialects differ from those of the Sunnis, Druze, or Maronites.

Blanc (1964) discussed the issue of communal dialects and distinguished three degrees of interdialectal differentiation: minor, medium and major. Jerusalem Arabic was an example of the first, with differences noted in the frequency of certain phonemes or intonation patterns, or in the use of religion-specific lexemes.

A medium line was drawn for various North African towns where only Muslims and Jews lived. Algiers, e.g., displayed differences in (1) s, j, r, q, h, e; (2) the form of the feminine ending in nouns (a by Muslims and e by Jews); and (3)

certain forms of bound prepositions. Clearer differences can be felt in the use of certain basic lexemes (e.g., adverbs of place and time, prepositions) and borrowed words. Such communal properties are systematic but few. Baghdad served as the major example of communal distinctions when it had Muslim, Jewish and Christian communities. Baghdadi dialects reflected the underlying division into sedentary and bedouin (Christians and Jews came earlier while the ex-bedouin Muslims sedentarized there later.)

Diglossia

The term "diglossia" was made popular for Arabic by W. Marçais in 1930, though K. Krumbacher already used it in 1902. Ferguson (1959) discussed other languages besides Arabic since elements of diglossia frequently occur in many languages. Thus, diglossia is probably a linguistic universal, though Arabic is unique in its "grand scale." Arabic diglossia is a sociolinguistic fact which unites most of the Arab world. Cypriot Arabic, Maltese, and most varieties of Juba and Chadian Arabic, however, do not have it. The phenomenon is ancient, dating from the pre-Islamic period; however, it is assumed that its Neo-Arabic form arose in the seventh century CE.

Diglossia involves two basic varieties of the same language living side by side, each performing different functions. While colloquial Arabic is always an acquired system, i.e., informally learnt, MSA is studied in school. Diglossia is best viewed as a continuum from the highest or most prestigious CA (*fuṣḥaa*) to the lowest or most colloquial dialect (*ʿaammiyya*). Thus MSA *ʾalaysa kaδaalika* 'isn't it so?' is Cairene (Ca.) *muš/miš kida*. A striking feature of diglossia is paired vocabulary; e.g., MSA *ḥiδaaʾun* 'shoe' = Ca. *gazma*, or MSA *raʾaa* 'see' = Ca. *šaaf*.

Generally, MSA is used in written texts, sermons, university lectures, most political speeches and news broadcasts, while colloquial Arabic is used conversing with family or friends, also in radio and TV soap operas. Since there is no clear delimitation between MSA and colloquial Arabic, native speakers often mix the two to various degrees using the so-called "middle" language.

Since the Qurʾan is written in CA, it is admired as more beautiful, logical, elegant and eloquent than any colloquial dialect, and therefore also "better" than colloquial dialects. MSA is the mark of *ʿuruuba* or pan-Arabism, since there can be a high degree of mutual unintelligibility among various colloquial varieties such as Moroccan and Iraqi.

Gender-based Differences

Material is being accumulated attesting to the linguistic differences between Arabic-speaking men and women in the various dialects. Differences have been found on all levels – phonology, morphology, syntax, and vocabulary and discourse types and structures.

Table 14.1 Arabic consonant phonemes

	Bilabial	Labio-dental	Inter-dental	Dental	Emphatic	Palatal	Velar	Uvular	Pharyngeal	Laryngeal
Stops	b			t d	ṭ ḍ		k	q		ʾ
Affricates						ǰ				
Fricatives		f	θ ð	s z	ṣ ð̣ (ẓ)	š		x ɣ	ḥ ʿ	h
Nasals	m			n						
Liquids (lateral and trill)				l r	ḷ					
Approximants	w					y				

Source: Alan S. Kaye, "Arabic," in *The World's Major Languages*, ed. B. Comrie. Oxford University Press, Oxford 1987, p. 666. Reproduced by permission of Oxford University Press.

Table 14.2 Reflexes of Classical Arabic *q* in some dialects

	CA						
Place	*qalb* 'heart'	*baqara* 'cow'	*waqt* 'time'	*qaal* 'said'	*qamar* 'moon'	*qahwa* 'coffee'	*quddaam* 'in front of'
Jugari (Uzbek.)	qalb	baqara	waqt/†waht	qaal	qamar		giddaam
Mus.Bag.	galub	§baqar	wagut/§waket	gaal	gumar	gahwa	geddaam/jeddaam
J.Bag.	qalb			qaal	qaməy		jeddaam
Mosul	qalb	†bagra		qaal			
ʿAanah	qaalb		waqet	qaal		gahwa	
Rural Lower Iraq	galub	bgura/bagra	wakit	gaal	gumar	ghawa/gahwa	jiddaam
Judeo-Ar. Iraqi Kurdistan	qalb	baqara	waqt/waxt	qaal	qamar	qahwe	qeddaam
Mardin (Anatolia)	qalb	baqara	waqt/waxt	qaal	qamar	qaḥwe	qeddaam
Sheep nomads, Mes., NE Ara.	galb/galub	bgara	wagt/wakit	gaal	gumar	ghawa	jeddaam
Camel nomads, Mes., NE Ara.	galb	bgara	wagt	gaal	gumar	ghawa	dᶻeddaam
Aleppo	ʾalb	baʾara	waʾt	ʾaal	ʾamar	ʾahwe	ʾəddaam
Damascus	ʾalb	baʾara	waʾt	ʾaal	ʾamar	ʾahwe	ʾəddaam

Table 14.2 Reflexes of Classical Arabic *q* in some dialects (*continued*)

Place	CA *qalb* 'heart'	*baqara* 'cow'	*waqt* 'time'	*qaal* 'said'	*qamar* 'moon'	*qahwa* 'coffee'	*quddaam* 'in front of'
Beirut	ʔalb	baʔara	waʔt	ʔaal	ʔamar	ʔahwe	ʔəddaam
NW Jordan	galib	bagara	wagət	gaal	gamar	gahwah	giddaam
Druze	qalb	baqara		qaal	qamar	qahwe	kuddaam
Nazareth	kalb	bakara	wakt	kaal	kamar	kahwe	ʔuddaam
Jerusalem	ʔalb	baʔara	waʔt	ʔaal	ʔamar	ʔahwe	kuddaam
Biir Zeet	kalb	bakara	wakt	kaal	kamar	kahwe	kuddaam
Yemen (Ṣanʕāʔ)	galb	bagara	wagt	gaal	gamar	gahweh	guddaam
Cairo	ʔalb	baʔara	waʔt	ʔaal	ʔamar	ʔahwa	ʔuddaam
Sudan	galib	bagara	wagt	gaal	gamra	gahwa/gahawa	giddaam
Ouaday(Chad)		beger	waqt	gaal	gamar	gahwa	
E. Libyan (Benghazi)	galəb	əbgəra	wagət	gaal	gamar	gahawa	giddaam
Tunis	qalb	†bagra	waqt		gəmaɣ		qudcaam
El Hamma de Gabes	galˤb			gal			
Marazig	galab		wəʔt	gal		gahwa/qahwa	geddaam
J. Algiers	ʔəlb				ʔəmr		ʔəddam
Bou Saada		bigar			gimar		
Djidjelli	qəlb		wəqt		qmer		qəddam
Casablanca	qəlb	bqʌr/bgʌr	wʌqt		qəmr		qoddam
N. Taza			waqt / †wax		gemra		
Maltese	qalp		waqt	qaal	qamar		quddiem
Andalusian (low register)	kalb	bakar	wakt		kamar		kuddim

† Only in one or two isolated places.

§ An irregular reflex.

Phonology

Consonants and Vowels
The consonantal segments of a "fairly typical" educated pronunciation of MSA are shown in Table 14.1, p. 268, although one can always argue about the precise definition of "typical."

The Arabic alphabet provides for a rough depiction of some of the phonological facts of CA and, on the whole, reflects consonantism better than vocalism. Arabic dialects, however, are not well served by the orthography because the pronunciation of some consonants differs from those presented in Table 14.1. Among the most conspicuous consonantal differences between CA and the dialects are the developments of Old Arabic *qaaf and *jiim (PCA [Proto-Colloquial Arabic] *žiim but PS [Proto-Semitic] *g). Somewhat less varied, yet important, is the development of Old Arabic *kaaf. Table 14.2, p. 268, gives the details of the reflexes of CA q for seven common illustrative words. Table 14.3 shows the correspondence for five lexemes with CA k. Some generalization to the data presented in the tables follows.

Qaaf
Bedouin (or those descended from speakers of bedouin or bedouinized dialects) have a voiced reflex of the qaaf, while sedentary dialects, such as Cairene and Damascene, have a voiceless one − ' < q. Many city/rural and sedentary/non-sedentary distinctions thus tend to cut across areas displaying a geographic unity.

The Old Arabic *q survives unvoiced in parts of Iraq, Lebanon, Syria, Yemen, Tunisia, Algeria and Morocco. In the case of (Muslim) Baghdadi it is ordinarily thought of as associated with more formal speech (or with that of Christians and Jews), whereas the g and j variants are associated with colloquial speech. The word for 'near' may be heard there as as jiriib, griib, giriib or qariib, and ṣidq 'truth, honesty' is pronounced as ṣigid (with metathesis), ṣidig, ṣidug, or ṣidiq.

The shift q > ' occurs in a geographically wide area: Aleppo, Damascus, Beirut, Jerusalem, Cairo, Jewish Algiers, Tlemçen, etc. The fact that it occurs also in Maltese is strong evidence that the latter cannot be considered a Maghrebine (North African) dialect, as has been its usual classification (along with Sicilian and Andalusian Arabic).

The loss of the emphatic nature of q has caused it to develop into k in e.g., Charmuuch (Iraq), some rural Palestinian dialects, Djidjelli (Algeria), Msirda and Andalusia.

Many bedouin dialects have a voiced qaaf, i.e., IPA [ɡ], which may even be its original pronunciation. Others have a g/j alternation as in Muslim Baghdadi, whereas others have a g/dz reflex. This alternation often depends on a front vowel environment. The affrication of qaaf as dž (and k > tš) in Yemen and Central Najd occurs in some dialects of southern Iraq and the Arabian Peninsula, too. See Map 3, p. 272. Other developments occur sporadically in various dialects as, e.g., ḥ in addition to q/g in Jugari Arabic (Uzbekistan) and x < q in Iraq.

Table 14.3   Reflexes of Classical Arabic *k* in some dialects with CA correspondences

Place	CA *kaan* 'he was'	*kabiir* 'big'	*kalb* 'dog'	*kull* 'all'	*kitaab* 'book'
Jugari (Uzbek.)	koon	kabiir	kalb	kul	ḳitaab
Mus. Bag.	čaan	čebiir	čaleb	kull	†ketaab
Jewish Baghdad	kaan	kbiiɣ	kalb	kell	
Mosul	ḳaan			kell	
ʿAanah	†čaan	kbiir	†čaleb		
Rural Lower Iraq	čaan	čebiir		kill	
Judeo-Ar. Iraqi					
Kurdistan	kaan	gəbiir	kalb	kəll	
Mardin (Anatolia)	kaan	gbiir	kalb	kəll	kteeb
Sheep nomads,					
Mes. NE Ara.	caan	čebiir	čalb	kill	ktaab
Camel nomads,					
Mes. NE Ara.		cebiir	calb		
Aleppo	kaan	kbiir	kalb	kull	ktaab
Damascus	kaan	kbiir	kalb	kəll	ktaab
Beirut	kaan	kbiir	kalb	kəll	ktaab
Horan	kaan	čebiir	čalᵉb/†kelb		
Druze	kaan	kbiir	kalb	kull	ktaab
Nazareth	kaan	kbiir	kalb	kull	ktaab
Jerusalem	kaan	kbiir	kalb	kull	ktaab
Biir Zeet	čaan	čbiir	čalb	kəll	čtaab/ktaab
Yemen	kaan	kabiir	kalb	kull	kitaab
Cairo	kaan	kibiir	kalb	kull	kitaab
Sudan	kaan	kabiir	kalib	kull	kitaab
Ouaday(Chad)	kaan	kebiir	kelb	kull	kitaab
E. Libyan					
(Benghazi)	kaan/kien	kibiir	kalib	kill	ktaab/ktieb
Tunis	kaan	kbiir	kalb	kul	ktaab
Marazig	kaan	kebiir	kalb	kul	kataab
J. Algiers	kan	kbir	kəlb	kəll	ktab
Bou Saada					kᵘtaab
Djidjelli	kan	kbir	kəlb	kəll/kˢell	
Casablanca	kan	kbir	kəlb	kəl	
Maltese	kien	gbiir	kelp	kol	ktiep
Andalusian	kin	kibiir	kalib	kill	ktaab/ktieb

† An irregular reflex.
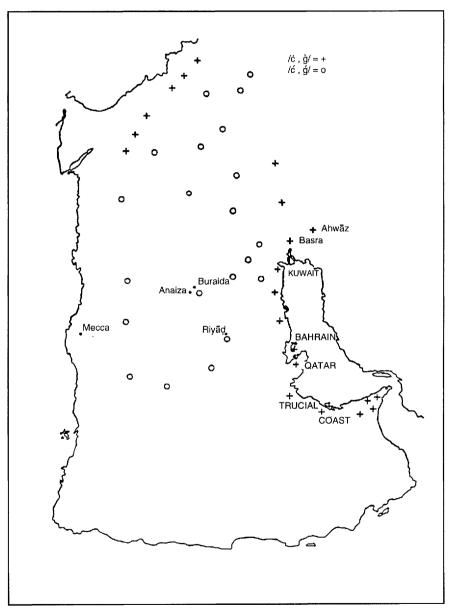
j *vs.* dz

The following examples demonstrate Old Arabic **q > j/dz* in Kuwaiti and ʿAnaiza dialects (Eastern Arabian Peninsula): Ku. *ṭiriij* vs. ʿAnaiza *ṭiriidz* 'road', Ku. *θijiil* vs. ʿAnaiza *θidziil* 'heavy', Ku. *dijiij* vs. ʿAnaiza *didziidz* 'flour', Ku. *jiddaam* vs. ʿAnaiza *dziddaam* 'in front of, forward'.

Other Developments

Other developments occur in limited circumstances and sporadically in various dialects. Thus, e.g., Jugari Arabic (Uzbekistan) has *ḥ* in addition to *q/g*, Iraqi

Map 3   The approximate distribution of the affricated variants of ك and ق

/č , ǧ/ = +
/č , ǧ/ = o

+ Ahwāz
+ Basra
KUWAIT
Buraida
Anaiza
Mecca
Riyād
BAHRAIN
QATAR
TRUCIAL
COAST

Source: T. M. Johnstone, *Eastern Arabian Dialect Studies* (London Oriental Series 17). Oxford University Press, London 1967, p. 5. Reproduced by permission of Oxford University Press.

Arabic has $x < q$ in some lexemes, e.g., *ṭaqm* (MSA) = *ṭaxim* (Baghdadi) 'suit (clothes), set'. (Some developments might be due to effects of bilingualism and/or substratum, as with the above example, cf. Persian *väqt* 'time' < Arabic *waqt* > colloquial Persian *väx.*)

Kaaf

The development of PS (Proto-Semitic) *k*, through Old Arabic **k*, is described in this section. It remains *k* in most of the sedentary dialects, including Jugari, Christian and Jewish Baghdadi, Mosul, Aleppo, Laodicea, Hama, Homs, Beirut, Damascus, Jerusalem, Cairo, Yemen, the Sudan, Ouaday (Chad), Oran, Bou-Saada, Marazig, Morocco and Andalusia.

It has palatalized to k^y in many areas such as in the Arabian Peninsula (e.g., Oman) and in Djidjelli. The affrication of *k* into *č* is noteworthy in the contiguity of front vowels in all positions among many bedouin dialects in Saudi Arabia, Syria, Iraq and Muslim Baghdadi and among the Bahraini Sunnis, and as unconditioned articulation in other dialects in the Syro-Palestinian area, including some rural Samaria and Galilee ones, as well as those of the Shiites in Bahrain. At present, the affricate articulation tends to occur more frequently in the speech of the older generation; e.g., *šibbaač* 'window' for *šibbaak* due to the undergoing processes of leveling and koineization and the spread of MSA. The situation in the Arabian Peninsula demonstrated by Kuwaiti *č* and 'Anaiza (Najdi) *ts* is fairly typical as the affricates occur in the environment of front vowels. The symmetry of both dialects is such that also *j* and *dz* regularly occur for the *qaaf*. Consider a few examples of the opposition *č/ts* between Kuwaiti Arabic and 'Anaiza Arabic: Ku. *inčaan* vs. 'Anaiza *intsaan* 'if', Ku. *čabda* vs. 'Anaiza *tsabda* 'liver', Ku. *ḥinč* vs. 'Anaiza *ḥanats* 'jaw', and Ku. *čiθiir* vs. 'Anaiza *tsiθiir* 'much'.

In Yemenite dialects and in Bahrain, however, one finds also *š* for *k* in the sg. 2f. (see Table 14.5, p. 288). This may probably have led to the change of *šaaf* 'he saw' into *čaaf* in this area (Holes 1983). Many North African dialects affricate *t* and *k* to *ts* (*tsbiir* 'big' for *kbiir*). The latter is a Judeo-Arabic isogloss and exists (see p. 270) in the Arabian Peninsula, too (for *q*).

In Maltese *g* occurs for Old Arabic **k* (via regressive assimilation) and *c* and *ts* for Old Arabic **g*, e.g., *gibiir* 'big', *ḥrigt* [hričt] 'I went out'. A typical example of the variations in one region (Eastern Arabian Peninsula) is the modal particle *tsid* ('Anaiza), *čid* (Abu Dhabi), *qid ~ jid* (Qatar), *dzid* (Najd).

In modern Yemenite dialects, as in CA, *kaskasa/kaškaša* occurs. This phenomenon is the suffixation of *s(i)* or *š(i)* to the sg. 2f. bound pronoun *-ki*, or its replacement by such an element.

Root Alternation and Morphological Doublets

Phonological rules affect the structuring of the root and yield allomorphy or suppletive structures. The following illustrations are from Muslim Baghdadi: *čaan/ykuun* 'be', *čibiir/ kbaar* 'big', *čarra* 'he gulped', but *karʿa* 'a gulp'. Examples of morphological doublets from Muslim Baghdadi are: *mčammal* 'complete'

vs. *mkammal* 'someone perfect', *čiwa* 'to scorch' vs. *kiwa* 'to iron', *kital* 'to hit' vs. *qital* 'to kill', *fariq* 'parting (of hair)' vs. *farig* 'difference'.

Jiim

Another major consonantal isogloss in Arabic dialects is the reflex of CA *jiim*. The historical development yields three major productions of this phoneme in the dialects: *g*, *ž*, *j (dž)*. In some dialects *jiim* has been fronted to g^y (Yemenite, some other Arabian dialects) or d^y (in Sudan). In a few others (notably, Sunni dialects in Bahrain) *y* has entirely taken over. The following examples may be taken as representative but not exhaustive. Asterisked forms indicate PCA.

Cairo /g/
*/ž/ → /g/   */žamal/ >   /gamal/ 'camel'
Damascus /ž/
*/ž/ → /ž/   */žamal/ >   /žamal/ 'camel'
Aleppo /j/
*/ž/ → /j/   */žamal/ >   /jamal/ 'camel'
Baghdadi (Muslim) /j /
*/ž/ → /j/   */žild/ >   /jilid/ 'skin'
Yemenite /j /
*/ž/ → /j/   */žild/ >   /jild/ 'skin'
Medina (Saudi Arabia) /d^y/
*/ž/ → /d^y/   */žamal/ >   /d^yamal/ 'camel'
Khartoum /d^y/
*/ž/ → /d^y/   */žabal/ >   /d^yabal/ 'mountain'
Jugari (Uzbekistan) /j/
*/ž/ → /j/   */žawaab/ >   /jawoob/ 'answer'
Moroccan /ž/, /g/
*/ž/ → /ž/   */žuuʕ/ >   /žuʕ/   'hunger'
*/ž/ → /g/   *#So MI (mirror image)   So {s, z} So#
       */žibs/ >   /gəbs/ 'plaster'
       */žazzaar/ >   /gzzar/ 'butcher'

     Exceptions to this rule may exist; thus /gləs/ 'he sat', /gales/ 'sitting' but /mažles/ 'parliament' (the latter is probably a MSA loanword).

Maltese /j/ /š/ /č/
*/ž/ → /j/   */žabal/ >   *ġebel* 'mountain'
*/ž/ → /š/ /__ t   */xiražt/ >   *ħriġt* 'I went out'
*/ž/ → /č/ (by dissimilation)
       */zawž/ >   *zewġ* 'two'
Algiers (Jewish) /j/ /ž/
*/ž/ → /j/   */jamal/ >   /jamal/ 'camel'
*/ž/ → /ž/ /__ t   */ħaažati/ >   /ħažti/ 'my thing'

Tunis /ž/, /z/
*/ž/ → /ž/   */žabal/ >   /žbal/ 'mountain'
*/ž/ → /z/   *#So MI So {s, z} So#
                  */žibs/ >   /zibs/ 'plaster'
                  */žewza/ >   /zuuza/ 'nut'
                  */zawž/ >   /zuuz/ 'two'
Djidjelli (Algeria) /ž/
*/ž/ → /ž/   */žamal/ >   /žamal/ 'camel'
Gulf (Abu Dhabi) /y/ /j/
*/ž/ → /y/ ~ /j/   */rižl/ >   /riil/ 'foot'

(Some speakers have free variation of /y/ ~ /j/: /ya/ ~ /ja/ 'he came'.)

Labials
CA and MSA do not have *p* or *v*, yet some dialects have developed these in native words in addition to their occurrence in loanwords. The following examples are from Yemenite Arabic (Ṣanʿāʾ): *sappaak* 'pipe fitter', *δuppi* 'fly'. In Iraq there is even an emphatic *p*. Certain Moroccan dialects have *b* > *v*. Also Maltese, Anatolian and Cypriot Arabic use *v*, e.g., Cypriot *zava* for *jawwa* 'inside'.

Interdentals
One can dichotomize Arabic dialects into those which preserve fricative *θ*, *δ* and those which merge them with their corresponding stops. As a rule of thumb, those which keep them have *δ* as the reflex of the *ḍaad*, originally probably an emphatic lateralized dental [dl]. Yemenite Arabic is typical of an interdental preserving dialect: *θalaaθa* '3', *ʾaxδar* 'green', *δippaal* 'wedding celebration'. However a *ḍ* has also developed there by way of voicing of *ṭ*. Consider *maḍar* 'rain', *baḍḍa* 'duck' and *maḍaabix* 'kitchens' (pl. of *maṭbax*). (This probably represents the original state of affairs, as the emphatics were voiced.)

   Developments of interdentals include *θ > f* (*falaafa* '3' in Shiite Hasaawi Arabic, Eastern Saudi Arabic and Bahraini), *famma* ('there is', Tunisia) and Anatolian *δ > v* (*vahab* 'gold'). Among other changes are *θ > s*: in Uzbekistan, Chad, Cameroon: Jugari *salaas* '3', Cameroonian *salaasa* '3'; *δ > ḍ* in Chad *ḍahab* 'gold'; *δ > z* and even *δ > ẓ* in *ʿaẓiim* 'great' in many dialects (e.g., Egyptian).

   The development of interdental fricatives to stops distinguishes between bedouin and sedentary dialects in that the former tend to preserve the fricative articulation. In Dathina (Yemenite Arabic), e.g., the emphatic *δ* is preserved as an interdental while the *ḍaad* is an emphatic *ḷ*.

Emphatics
Most Arabic dialects today contain emphatic (*mufaxxama*) vs. non-emphatic (*muraqqaqa*) contrasts (except for a few dialects such as Maltese, Chadian, and Nigerian Arabic (some speakers), Juba Arabic, Ki-Nubi, and Cypriot Arabic. The emphatic consonants basically include *ṣ*, *ḍ*, *ṭ*, *δ*, depicted herein with a dot under-

neath them. Thus a word such as Cairene *ṣeef* 'summer' has a non-emphatic minimal pair *seef* 'sword'. The vowels around an emphatic as a rule tend to become lower, retracted or more centralized than those around non-emphatics. The usual phonological explanation for this feature lies in the opposition between emphatic and non-emphatic parallel consonants.

Emphatics are often called velarized or pharyngealized due to difficulties in their phonetic description. (The IPA indicates both pharyngealization or velarization with a wavy bar through the consonant, i.e., [ɫ].) Indeed, this is a very controversial area in the Arabic phonological literature as to description and functioning. They correspond to ejectives in Ethio-Semitic languages, but there it is probably due to the Cushitic substratum.

Since Modern South Arabian languages have ejectives as the phonetic realization of emphasis, many Semitists hypothesize that the PS emphatics were ejectives as well. Consequently, the Arabic type today seems to be secondary, although not all Semitists agree. In the CA period the existence of emphatics in the language was noted, as the name *luγat al-ḍaad* 'the language of *ḍaad*' for Arabic indicates (cf. *luγat muḍar* 'the language of Muḍar', also containing a *ḍaad*).

The Debate about Emphasis

Blanc (1953) in his fundamental study of Druze dialects in the Galilee area discussed the basic issues of the debate between the twin series of non-emphatic and emphatic consonants therein. Blanc (1953: 53) maintains: "The difference between them is distinctive in some cases and non-distinctive in others, but it is in all cases acoustically striking and *characteristic of the dialect*, and even non-distinctive *tafxiim* [emphasis] plays an important role in phonetic change on both the historical and the synchronic levels."

Roman Jakobson (1957) attributes some of the phonetic characteristics of emphasis to a contraction of the upper pharynx. Velarization (or "darkness," among other terms) refers in essence to a decrease in the volume of the back orifice of the vocal tract (buccal cavity) serving as a resonator. In addition to the above, emphasis may also involve some degree of protrusion and rounding of the lips. This explains why emphatics are often perceived as labials by non-Arabs and why they have labial correlates when Arabic words with them are borrowed into other languages (e.g., Swahili). Jakobson (ibid.) called this feature [+flat] which he considered also present in labials and labialized phonemes. In terms of acoustic phonetics (and as seen in spectrograms), emphatics reveal lower second formant frequency ranges compared to the non-emphatics (cf. Obrecht 1968).

Emphasis has been problematic for phonologists, particularly because of difficulties in defining "emphasis spread." Walter Lehn (1963) suggested that at least for Cairene, the minimum domain of emphasis is the syllable and the maximum domain is the utterance. He suggested that emphasis should not be treated as a distinctive feature of the consonantal or vocalic system but as a redundant feature of both and proposed underlining all emphatics, e.g., *darab* 'he hit', *darabit* 'she hit'. (We do not use this transcription.)

Other Developments of the Emphatics
The existence of emphatics is remarkably stable throughout the Arab world, although they have been lost in some dialects (see p. 275). In addition to the primary emphatics noted there, found also in CA and MSA, many dialects developed new secondary ones. Some sedentary dialects have only single, isolated words with secondary emphasis; cf. Galilee Druze *ḅaaḅa* 'father', *yaṃṃa* 'mother', *ʾaḷḷa* 'God'. In other sedentary dialects emphasis is more widespread, mainly for *r, l, m, n*; e.g., MSA *raʾs* vs. Ca. *ṛaaṣ*, MSA *daar* vs. Mor. *ḍaaṛ*. However, emphatic *f, ḅ, w, ṗ, ġ* are also to be noted. Much emphaticization is characteristic of bedouin dialects; thus cf. bedouin *ǧaaδi* vs. sedentary *ʾaaḍi* 'judge'. Consider, however, also Nigerian Arabic *karra* 'he tore', *kaṛṛa* 'he dragged'; *gallab* 'he raced', *gaḷḷab* 'he got angry'; *aṃṃ* 'mother' and *emm* 'uncle'.

In many varieties of Nigerian Arabic the *t* has become a voiced pharyngealized implosive (symbolized here as *ḍ*; e.g., *xaḍḍa* 'put'). Also, in Zabiid (Yemenite Arabic) the reflex of *ṭ* and *q* is glottalized *t́, ḱ,* respectively.

Differentiated use of emphatics is also characteristic of male speech having more emphasis than female speech. Whether this is true for the whole Arab world remains to be investigated.

Pharyngeals
ḥ and *ʿ* are basic characteristics of Arabic, although they have usually been lost in, e.g., Maltese, Cypriot and Chadian Arabic. They have totally disappeared in Nigerian Arabic, Juba Arabic and Ki-Nubi. Maltese merged *x > ḥ* and *h*, and *γ > ʿ* as happened also in NW Semitic, but has subsequently lost *ʿ*. In Cypriot Arabic *ḥ > x (paxr < baḥr* 'sea') and *γ > ʿ*, as in Maltese. In North Yemen (Zabiid) *ʿ* is not a pharyngeal fricative but a pharyngeal plosive. J. C. Catford calls both of these Semitic phonemes "pharyngeal approximants," whereas Ladefoged and Maddieson (1996: 168) refer to them as "epiglottals."

Laryngeals
ʾ already began to weaken in Old Arabic, cf. the CA imperative of *ʾaxaδa = xuδ* 'take!' or the possible imperfect of *saʾala*, namely, *yasʾalu ~ yasalu* 'he will ask'. In many dialects one finds many more such cases; e.g., MSA *al-marʾah/imraʾah > colloquial *mara* 'woman' (in Cairene), or active participle MSA *naaʾim >* colloquial *naayim* 'asleep'. (This process does not occur with *ʾ < *q*.) Original *ʾ* is often replaced in the dialects by *w, y* or by compensatory vowel lengthening; e.g., colloquial *ṛaaṣ* for CA *raʾs*. III-*ʾ* verbs have merged with III-*y* ones: *bada* (CA *badaʾa*) 'he began' is in the same class with *bana* (CA *banaa*) 'he built'.

h, too, has been lost in many dialects, particularly in the 3rd person suffixes (CA *-hu/-ha/-hum/-hunna* 'sg. m., sg. f., pl. m., pl. f.' respectively. Some conservative dialects (e.g., bedouin and Yemenite ones) have, however, preserved the feminine *-h*.

Vowels

Though the CA and MSA vowel system have the classical triangular shape pre-
serving PS *a–i–u* vocalism, many Arabic dialects have developed other vowels
such as *ə, e, o,* etc. As in CA and MSA, the vowels may be short or long (gemi-
nated) in most dialects. Many analyses of Moroccan Arabic, for example, do not
contrast long vs. short vowels.

Vowel allophonics are quite rich because vowels take on the coloring of adja-
cent consonants; emphatics (and back consonants such as *r*) push them down and
back, while non-emphatics raise them to higher and front positions; however, not
all dialects (e.g., Nigerian Arabic) have such *a* vs. *ä* variation. Many of the main-
stream dialects follow similar or identical rules. They are presented in the follow-
ing rule series (the lack of a line in the environment means that the segment may
occur on either side of the motivating feature or segment):

1 /i/ → [ɨ]   /   – [+ emphatic] –
        → /ɪ/   – {ʕ, γ} –
        → /i/   (elsewhere)
2 /ii/ → [ɨɨ] /   – [+ emphatic] – (except /ḷ/)
        → /ɪɪ/   – {ʕ, γ} –
        → /ii/   (elsewhere)
3 /u/ → /ʊ/   /   – [+ emphatic] –
        → /u/   (elsewhere)
4 /uu/ → /ʊʊ/ /   – [+ emphatic] – (except /ḷ/)
        → /uu/   (elsewhere)
5 /a/ → /ə ~ ä/ __#   (but not next to /q, ʕ, r, γ/)

$$
\rightarrow /a/ \quad / \quad \left[\left[\left\{\begin{array}{l} -\,+\text{ emphatic } - \\ -\,q\,- \\ -\,r\,- \end{array}\right\}\right]\right]
$$

        → /ʌ/   /   – {ʕ, γ} –
        → /æ/   /   (elsewhere)

6 /aa/ → /aa/ /

$$
\left[\left[\left\{\begin{array}{l} -\,+\text{ emphatic } - \\ -\,q\,- \\ -\,r\,- \end{array}\right\}\right]\right]
$$

        → /ʌʌ/ /   – {ʕ, γ} –
        → /ææ ~ ää/   (elsewhere)

In the dialects the short vowels are more susceptible to change than the long
ones. CA *i, u* merge in many Eastern and Western dialects into one central vowel
ə (as in Geʕez). The most stable and conservative of the three short vowels is usu-
ally *a*, but in many dialects, it, too, is subject to change. Many Maghrebine dialects
shortened CA *aa*, while unstressed CA *a* has been deleted and vocalic length
ceased to be relevant.

The short vowels often do not match up in the dialects. (This can also be noted
for Old Arabic dialects.) CA had many doublets and even triplets in its short

vowel configuration, e.g., *laṣṣ, liṣṣ, luṣṣ* 'thief'. Many modern vocalic discrepancies may be attributed to this feature. Compare Nigerian Arabic *himirre ~ humurre* 'donkeys' in which we can posit either assimilation or dissimilation processes.

CA possessed two diphthongs *aw* and *ay*: *yawm* 'day' and *bayt* 'house'. Some dialects preserve them; e.g., Lebanese or Yemenite *bayt* 'house' (yet in some dialects of both also *beet*). In most of the Eastern dialects the diphthongs have monophthongized into *oo, ee*, respectively, and into *uu, ii* in the Maghreb. Some Syro-Lebanese dialects delete the second element of the diphthong, yielding *aa* or *a* (e.g., *ja'aan* 'hungry', *lamuun* 'lemon').

ʾimaala: /a/-Raising

ʾimaala (literally 'inclination') refers to *a*-raising (*a > e/i/ie*) due to the umlauting influence of *i*. This phonetic feature is typical of Iraq, Syria and Lebanon. Maltese has it, too; e.g., *bieb* 'door' (= MSA *baab*), *kelmiet* 'words' (= MSA *kalimaat*).

ʾimaala may be internal (cf. above) or final, in which it is mainly an allomorph of the feminine ending *-a*, (cf. Syrian *madrase* 'school' vs. *riyaaḍa* 'sport'). Basically *a* occurs after all back consonants including emphatics and *e* elsewhere. The height of the vowel (*e, i*) depends on the dialect in question.

Standard Maltese has no final *ʾimaala*: *kalba* 'bitch', *tfajla* 'young woman', but Gozo Maltese has it: *sitte* 'six' for standard *sitta*. Maltese can be regarded as a *Mischsprache*, since it has undergone heavy *ʾimaala* in other positions; e.g., *tieghi* 'my' (but *taghha* 'hers').

Phonotactics

Changes in syllable structures had far-reaching ramifications in the dialects. While CA does not allow for long vowels in closed syllables (except *aa*) or before consonant clusters in general, the dialects allow both, although there are different phonotactic systems for consonant clusters and epenthetic rules to break them up. Elision of the short unstressed vowels *i* and *u* is similar to developments in Hebrew, Aramaic or Ethiopic, i.e., the "normal" development one might have expected. A major feature in the dialects is anaptyxis; e.g., Ca. *il-bint-i-di* 'this girl' in which *i* is inserted to break up the triple consonant cluster. Some dialects have degemination (e.g., Galilean and Iraqi). Multi-consonantal clusters are, however, typical of Maghrebine dialects.

Consonantal assimilations occur in all Arabic dialects. Nigerian Arabic is typical: *albiddi* 'this girl' < *albitt + di* (lit. the + girl + this (f.)), or *benna* 'our house' < *beet+na*, Mor. *srqunna* 'they stole from us' < *srgu+ lna*, Maltese *taghha* 'hers' < **ta'ha*. Some assimilations point to consonantal losses in final positions such as with *-h* (cf. p. 277) which is observed, e.g., in Cairene *wišš* or Maltese *wiċ* 'face' < PCA **wiǧh* (final devoicing). Cf. Nig. Ar. *juwaap* 'answer' (with final nasal plosion) < **jawaab*, Cyp. Ar. *taep* 'good' < **tayyib*.

Some Egyptian and Sudanese dialects are known for final consonant deletion: Sud. Rubatab *kitaa* for *kitaab* 'book', Upper Eg. *diggee* < *dilgeet* 'now', or *kee*

'how' for *keef*, *raaᶜ albeet* for *raaḥ ᶜalbeet* 'he went home' in Galilean, Lebanese and Anatolian dialects. This process exists in some Eastern bedouin dialects and the rural forms of Juba Arabic and Ki-Nubi as well (e.g., *ye-wéle* 'boy sg.' *yewelé* 'boy pl.' < Eg. *yaa walad*, 'oh, boy'). It is also known elsewhere in Semitic; cf. e.g. Syriac *bee* 'house'.

Vowel Deletion and Vocalic Assimilation
The most apparent difference between MSA and the dialects is the loss of vowels. The loss of case and mood marking (*ʾiᶜraab*) in the dialects is alone responsible for many final consonant clusters making vowel epenthesis common. So, too, various phonological rules have resulted in many long vowels shortening and short vowels deleting in various environments. The following example from Cairene is typical: *kaatib* 'writer, having written' yields f. *katba*, pl. *katbiin*. The extreme in vowel loss are Moroccan dialects. (Berber languages with their multi-consonantal clusters make substratum the likely explanation.)

Vocalic assimilation is common in all Arabic dialects. Consider Cairene *ḥaʾʾ* + *-ku(m)* 'your (pl. m.) right' > *ḥaʾʾúku(m)* (Yemeni *ḥaggukum*), but *ḥaʾʾ* + *-ha* > *ḥaʾʾáha* 'her right'. Other cases are bedouin *ubuuna* 'our father' < *ʾabu* 'father'; Nig. Ar. *usum* 'name' occurs also in Palestinian Arabic, though in most dialects it is *ʾisim/ʾasim*, or Nig. Ar. *bagarikki* 'your (sg. f.) cow' vs. *bagarukku* 'your (pl. m.) cow'.

Stress
The Arab grammarians never wrote about stress in the Old Arabic dialects. We can only assume that it was not phonemic and thus irrelevant to their concerns. Stress in the modern dialects is, however, one of the most involved topics in Arabic phonology.

As illustrative, in Cairene *ḥaʾʾúku(m)* 'your (pl.) right', the stressed vowel is originally anaptyctic, whereas in Yemenite the same vowel is unstressed (see p. 280). The diachronic explanations for such developments have been unsatisfactory.

Stress in the dialects may be considered phonemic since there are minimal pairs establishing this. Ca. *ḍárabu* 'they hit' vs. *ḍarabúu* 'they hit him', or Pal. *ʾaxádna* 'we took' vs. *ʾaxadnáa* 'we took it', and *ʾábila* 'before her' vs. *ʾabíla* 'receive her!'.

In many dialects word stress rules place the main stress on long syllables, especially at the end of the word, or on the penultimate or antepenultimate where there is no long syllable; long vowels are thus stressed, but the stress shifts to the second of two long vowels in a word as the first shortens. In Cairene the penult is typically stressed in, e.g., *madrása* 'school' whereas Damascene stresses the antepenultimate (*mádrase*).

Arabic dialects can be be bifurcated *vis-à-vis* stress: Eastern with *kátab* 'he wrote', vs. Western with *ktáb*, *ktəb*. Also Eastern bedouin dialects (in Syria and Arabia) show the two stress patterns. This indicates that the dichotomy probably

arose when Arabic dialects developed syllable stress. Maltese is in this regard clearly Eastern (*kísar* 'he broke', *tálab* 'he asked') unlike Maghrebine dialects. The Chadian–Nigerian area is complicated as there is a major dichotomy between *kátab* 'he wrote' (Gawalme) vs. *katáb* (Balge).

The same situation occurs in CVCVCV words. The original PCA stress on the first syllable, has been preserved in Ca. *sámaka* 'fish', Sudan *bágara* 'cow', Chad. *séjera* 'tree', Bag. and Jugari *hájara* 'stone' (cf. Ki-Nubi *sámaga* 'fish'). The unstressed vowel is usually elided in dialects which elide various medial vowels of the perfect plural, e.g.: Maur. *sádga* 'alms', Moroccan *bə́gra*, Alg., Tun., Mal. and Hadramawt *bágra* 'cow', Omani *séjre* 'tree'.

Many bedouin dialects and some sedentary descendants thereof in the Arabian Peninsula are known for the "*ghawa* syndrome" (< *g/qahwa*) in which the first vowel of this word pattern is elided while stress moves to the following vowel. This shift usually depends on the presence of a "guttural" around the first vowel; e.g., *ghawa* 'coffee' (hence its name), *γnima* 'ewe', *bṣala* 'onion' and *yˤarf* 'he knows'.

Some bedouin dialects stress initial CVC syllables even if they are prefixed; e.g. *álaxu* 'the brother', *ʾáštaγal* 'he worked'. This phenomenon may be used to prove the originally bedouin nature of Nigerian Arabic (*álme* is 'water' with an originally frozen definite article vs. *alálme* 'the water').

An unusual form is to be noted in Nigerian Arabic in which the 1st pronominal suffix *-i* is stressed; e.g., *úṣubi* 'finger' vs. *uṣubí* 'my finger'. This occurs elsewhere (Egypt, Chad, and the Negev bedouin dialects), cf. Chadian Arabic *ligiiní* 'he found me' and Sinai Arabic *maṭlabii* 'my cow'. These cases may be used as evidence that the object suffixes attract the stress, i.e., that stress is also morphologically conditioned.

Morphology
Arabic morphology deals mainly with the nominal and verbal elements. The adjective is included in nominal morphology, for morphologically it is not distinct from the noun.

Nominal Morphology

Nouns
Certain nouns are inflected for gender (m., f.) and most of them for number (sg. du., pl.). Still, there are some differences among dialects concerning the gender of certain nouns; e.g., *raas* 'head' which is f. in Cairene but m. in Jerusalem Arabic.

Noun structures may be simple (e.g., CaCC, CuCC, CiCC) or augmented by affixes. Quadriradical roots seem to be more abundant in the Maghrebine dialects than in Eastern ones; e.g., *sərwal* 'trousers', *zərbiya* 'rug', *sərduq* 'cock'. A clear tendency is to make biconsonantal nouns triconsonantal via *Systemzwang*; e.g., *dam* > *damm* 'blood'(possibly an archaism), *yad* > *ʾiid* 'hand' (making the root

triconsonantal *'yd*), *'ibn* > *'iben* 'son', *hum* > *humma* 'they', etc. Bedouin and sedentary dialects are distinguished by the "*gahawa* syndrome," e.g., sedentary *ɣaname* ~ bedouin and bedouinized *ɣnima* 'ewe'.

Verbal Nouns

Verbal nouns (except for Form I, which has many patterns) are directly related to the verb forms themselves (cf. p. 293). Thus in Cairene: *taCCiiC* is for Form II (e.g., *tanziil* 'lowering of prices'), *miCaCCa* or *CiCaaC* for Form III (e.g., *mi'ak-sa* 'quarrel', *firaaq* 'parting from someone'); *'iCCaaC* for Form IV (*'ikraam* 'respect, hospitality'); *taCaCCuC* for Form V (*takabbur* 'self-satisfaction'); *taCaaCuC* for Form VI (*tafaahum* 'mutual understanding'); *'inCiCaaC* for Form VII (*infigaar* 'explosion'); *iCtiCaaC* for Form VIII (*'i'tiraaf* 'confession'); *'iC-CiCaaC* for Form IX (*'iḥmiraar* 'turning red', and *'istiCCaaC* for Form X (*'is-ti'maal* 'use, applying something').

Some new verbal noun patterns have evolved in certain dialects, mainly in the Maghreb; e.g., *t'aniid* 'rivalry' for Form III in Algeria, *metgaarsa* 'wrestling' (for Form VI) and *tmesxiir* 'making of oneself a laughing stock' in Morocco, *tkebbir* 'self-importance, enlarging' (for Form V), *tqabid* 'fighting' (for Form VI) and *stenbih* 'awakening' (for Form X) in Maltese.

In general, verbal nouns of the derived Forms are rare and are often substituted by verbal nouns of Forms I–III of the same roots.

Gender

For gender distinction a suffix marks the feminine while the unmarked noun (and adjective) is considered masculine. This method applies when the feminine form implies natural sex, grammatical gender, or unit (in cases of 'unit nouns'). Thus in Ca. *malik* 'king' : *malika* 'queen'; *kalb* 'dog' : *kalba* 'bitch': *kibiir* 'big (m.)' : *kibiira* 'big (f.)': *maktab* 'office' : *maktaba* 'library'.

The feminine ending of a free noun is in most dialects *a/e* (according to dialect-specific phonological rules – cf. p. 278); however, in Negev bedouin *-ih* also occurs; e.g., *ḥimuulih* 'clan', *girbih* 'water skin'. (This ending occurs also in other noun patterns which have a short or long final *a*.) In many Yemenite dialects the feminine ending is *-at/-it*, e.g. *ak-kahalat* 'the old woman' (Gumar), *in-niswaanit* 'the woman' (An-Nadiir). This *-t* appears in the other dialects only in bound environments. (This *t* is called *taa' marbuuṭa* in MSA and carries the case ending and is therefore never omitted except in pre-pause position.)

Some body parts, natural elements etc. (which vary among the dialects) are feminine though not overtly marked; e.g., Cairene *ṛaaṣ* 'head'; *šams* 'sun'; *ḥarb* 'war'; *riiḥ* 'wind'; *suu'* 'market'; *bint* 'girl' etc. (In Maghrebine dialects *swiiqa* 'holiday market' and *bnita* 'little girl' also occur.) Rarely, a masculine noun may take the feminine ending, e.g., Ca. *'umda* 'mayor'.

Some animate entities use a suppletive system, both in the dialects and CA/MSA; e.g., Ca. *gamal* 'camel (m.)', *naa'a* 'camel (f.)', *raagil* 'man', *mara* 'woman'.

Number

Number categories include the singular, dual and plural. The singular is considered the "base pattern." A dual is formed by suffixing *-een* to the singular noun. Thus in Ca. *walad* 'boy' : *waladeen* 'two boys', *širka* 'company' : *širkiteen* 'two companies'. However, Nigerian Arabic prefers *uṣubi tineen* 'two fingers'; this structure exists elsewhere as a variant for the dual; cf. Jerusalem Arabic *waladeen* ~ *wlaad tneen* 'two boys'.

In contrast to the wide use of the dual in CA, Arabic dialects preserve it only in nouns, and even here it is not used at the same rate everywhere. Mainly, dual body parts and certain time and quantity expressions take the dual but there are syntactic, morphological and semantic distinctions between the "real dual" and the "pseudo-dual." Thus Ca. *rigleen* and Moroccan *rəjliin* are not necessarily 'two legs' but rather the plural of 'leg', while Jer. Ar. *ʾižirteen* means 'two legs'. Usually the "real dual" retains the morpheme *-ayn* while the "pseudo dual" forms vary among the dialects. The real dual tends not to take bound pronouns, thus retaining the *-n* (Jer. Ar. *ʾalameenak* 'your two pens', vs. *ʾižreehum* 'their legs').

As in MSA, there are two major types of plural:

1   The sound plural, where the pl. m. *-iin* or pl. f. *-aat* is suffixed to the singular base form as in, e.g., Jer. Ar. *falla(a)ḥiin* 'farmers', *ʿanzaat* 'goats'. The sound pl. m. is usually used with nouns indicating humans whereas the pl. f. is much less restricted.

2   The broken plural, where a different pattern is formed from the same root as the singular noun. The patterns (which are not restricted to humans) may include affixed vowels and consonants. Most broken plural patterns are common to all the Arabic dialects; however, some are typical of certain ones. Thus, Maghrebine dialects prefer the patterns with *-a, -an*, which exist elsewhere; e.g., *mγarba* 'Moroccans', *tlamda* 'students', *qdadša* 'servants', *dyuba* 'jackals', *jbala* 'mountain dwellers', *fərsan* 'mares', *ʿəmyan* 'blind (pl.)', *biban* 'doors'. The quadriradical patterns with a long vowel after C2 also occur frequently; e.g., *mjaləs* 'meetings', *bramǝl* 'buckets', *slaləm* 'ladders', *srawǝl* 'trousers (pl.)', etc. Bedouin and sedentary dialects may also be distinguished by their use of plural patterns. Cf. Maghrebine bedouin *bramiil* vs. sedentary *bramǝl* 'buckets'.

The plural CVCVC*a* in *dubúʿa* 'hyenas', *numúra* 'tigers', stresses quite exceptionally the penultima in Cairene. This pattern is used elsewhere; cf. Galilean bedouin *nmura* 'tigers'. C$_1u$C$_2u$C$_3$C$_3e$ is clearly Nigerian, Chadian and Darfurian (Western Sudanese) and Upper Egyptian; e.g., Nig. Ar. *digin* 'beard', pl. *dugúnne*.

A third method of pluralization combines the sound and broken plurals by suffixing the sound plural to the broken plural. This structure probably exists in most of the dialects, but is infrequent. Cf. Ca. *ʾuṭuraat* 'trains', Dam. *ṭərʾaat* 'roads', *ṣḥabiin* 'friends', Gal. bedouin *ziʿamaat* 'leaders', *furugaat* 'differences', Mag. *xwataat* 'sisters', *dmuʿaat* 'tears', *yaamaat* 'days', and Mal. *elufijiet* 'many

thousands'.

Some suppletive plurals are probably found in all dialects; e.g., Dam. *niswaan* for *mara* 'woman, wife'.

Case Endings (Nunation)

Case endings survive in Arabian bedouin and Yemenite dialects. Even in these they are functionally limited (cf. p. 298) and take the form *-en*, *-in*, rarely *-an*, without direct association of the case and its form. This is unlike MSA where the three syntactic cases – nominative, accusative/adverbial, genitive – have clear morphological forms, i.e., *-un*, *-an*, *-in* respectively. This fact has led to the insertion of anapyctic vowels in many dialects. (See p. 279.) Residues of case endings exist, however, in highly frequent words in many dialects, as e.g., *daayman* 'always', *ʾahlan* 'welcome', *ʾabadan* 'never' or in less frequent ones, such as *kullan* 'all, the whole of'. In such cases the ending *-an* stands for the adverbial case suffix.

Diminutives

Diminutives are used mainly in Maghrebine and bedouin (and bedouinized) dialects in both nouns and adjectives. Three basic patterns, *CuCaiC*, *CuCayyiC*, *CCayCuun*, are illustrated by bedouin *kleeb* 'small dog', *wleed* 'small child', *rweeʿiy* 'a young shepherd'(< *raaʿiy* 'shepherd'), Mor. *bnita* 'little girl', Ca. *gnejna* 'a little garden', *xayya* 'little sister', *ṣuɣayyar* 'small', Mal. *xwejjah* 'old man', bedouin *grayyib* 'near', *glayyil* 'a little', Bag. *zɣayruun* 'small'. Other examples from Negev bedouin are *aḥaymir* 'slightly red' (< *aḥmar* 'red'), *xrayrifih* 'a little story' (< *xurraafa* 'story, tale'). Diminutive forms may also be used as caritative, often in female speech in Maghrebine dialects (cf. p. 267).

Adjectives

Most verb forms have active and passive participles which may be used as adjectives. Still, the adjectives–participles do not always share the same meaning as the inflected verb forms. Cf. Jerusalem *faateḥ* (Form I) 'light (color)' (the basic meaning of the root is 'open'); *naayim* (Form I) 'lying down' (the basic meaning is 'sleep'); *mitʿallem* (Form V) 'educated' (the basic meaning of the root is 'learn').

Some adjectives exhibit different morphophonemic alternations in the dialects. Noteworthy are active participles of the verbs 'eat' and 'take'. The former in Damascene is *ʾaakil*, Ca. *waakil*, Jer. *maakil ~ meekil* while the latter is *waaxuð* in Eastern Libyan.

Adjectives of colors and defects take the pattern *ʾaCCaC* or *ʾiCCaC* with their f. *CaCCa* and pl. *CuC(v)C* patterns; e.g., Ca. *ʾaḥmar* (m.), *ḥamra* (f.) *ḥum(o)r* (pl.) 'red'. Cf. Gal. *ʾiṣfar* 'yellow (m.)', *ʾiswad* 'black (m.)'. One notes, however, *ʾaswid* 'black (m.)' (Bišmizziin), *ʾəswəd* 'black' (Mardin), Ca. *iswid*, and *ḥamar* (Arabian bedouin, bedouin elsewhere and bedouinized dialects due to the "*gahawa* syndrome" noted on p. 282), *ʿamyi* 'blind (f.)', *ṭaršiy* 'deaf (f.)' (Negev be-

douin), *biiδa* 'white (f.)' (J. Bag.) vs. *beeδa* (Mus. and Chr. Bag.), *'aṣfar* 'yellow (m.)', *ṣtafraay* 'yellow (f.)', *ṣtufriin* 'yellow (pl.)' (Yemenite), *ḥmor* 'red (pl.)' (Mag.).

The *'aCCaC* pattern is also used for the elative (e.g., *'aṭwal* 'longer'). The distinction between elatives and superlatives in the dialects is syntactic and not morphological, unlike MSA. For 'good' some Yemenite dialects use *xayr* rather than *'axyar* 'better', just like CA and MSA. However, many dialects use suppletion: *mniiḥ* (Jer.), *kuwayyis* (Ca., Sud., Nig.), *zeen* (Arabian bedouin, Mor., Nig.) and *'aḥsan* 'better' (all, but with appropriate phonological adjustments).

'First' and 'last' use the superlative pattern; *'awwal* (m.) *'awwala* (f.) 'first', *'aaxar* 'last' in many dialects. But cf. Maghrebine *l-axoor*, and Iraqi *l-axx* 'last'.

Relational (*nisba*) adjectives exist in all Arabic dialects. They are formed mostly by suffixing *-i(y)* or *-aani* (m.)/*-iyye, -aaniyye* (f.) to a noun, e.g., Dam. *šaami* 'Syrian, Damascene', *ḥa'ii'i* 'real, true,' *foo'aani* 'upper', etc.

Numerals

Cardinal Numbers

'1' is *waaḥad* (Jer.), *waaḥid* (Ca.), *wieḥid* (Mal.), *waaḥi(d)* (Mor.), *waaḥit* (Nig.) '1 (m.)'. It follows the noun as an adjective, unless used as pronoun, meaning 'someone'. The feminine ending is *a* or *e* (see p. 282).

'2' is often substituted by the dual noun (see p. 283). In the Eastern sedentary and bedouin dialects (also in the bedouin dialects of Tunisia and Libya, and in Nigeria) the forms are related to CA *'iθnayn*; e.g., *'itneen* (Ca.), *θneen* (Bag.) and the f. *tinteen* (Ca.). Yemenite dialects have *iθnee, θatte*. The Maghrebine dialects use *žuuž* (CA *zawj*) or the like (*zuuj, jowj, zowž*) though *θniin, θnein* also occur. Maltese has both *tniin*, and *zewg̣* or *giex*. 2 follows the dual noun in some dialects (e.g., Jerusalem Arabic) for emphasis (cf. p. 283), though in others it may precede the plural noun. In Nigerian it follows the singular noun.

3–10: these numbers are inflected by adding the pseudo-feminine suffix to the masculine (long) form as other adjectives (see p. 282). The long form is used when it does not govern any noun, i.e., when counting (alone); the short form is used when the counted noun follows. Some Iraqi and Anatolian dialects use *f, s* or *t* instead of *θ, t*; e.g., *snayn* '2', *saase, saasi, faafe* (Anat.) '3', *θneen* '2', *tlaaθa* '3' (Bag.). *flaafa* '3' is also used in Algerian and Hasawi Arabic. Jewish Baghdadi uses its usual *γ* for *r* in *aγbaʿ* '4' and *ʿašeγ* '10'. Maltese has the usual strong *'imaala* in *tlieta, tliet, tlitt* '3' and *tmienja* '8' as well as *tlit elef* '3,000', but *tlettax* '13' and *tletin* '30'. A special Syrian bedouin *samḥa* '7' for *sabʿa* is used "against the evil eye." For similar sociolinguistic reasons, '9' is *təsʿood* in Oran and *t(ə)sʿuud* in Morocco. Maltese voices the *t* in *disgħa* '9', *dsatax* '19', and *disgħin* '90'.

11–19 consist of the unit numbers + *-ar* 'teen'. The morphological distinction in the two paradigms (with or without *-ar*) is, like 3–10, syntactically conditioned; i.e., when the numeral is followed by the counted noun *-ar* is omitted, when it is

not followed by the counted noun the form with *-ar* is used. From '11' on, the head noun of the number is always singular. A special set is found in Nigerian Arabic; e.g., *ašara-haw-waahit* '10 + 1', *ašara-haw-tineen* '10 + 2' etc. Baghdadi Arabic loses *h* in *da'aš, ida'š, ida'eš* '11'. *xmusta'eš* '15' is peculiar in Muslim Baghdadi and Arabian dialects. In Yemenite *ç* is used for *š* in the "teens"; e.g., *hida'aç* '11', *'iθna'aç* '12'. Note *tlettaaš-en-marra* 'thirteen times', *hdaš-en-mya* '1100' in Algerian, Tunisian and Libyan dialects; and *tnaaš-el-'aam* 'twelve years' in Tlemçen, and *hdax-il-elf* '11,000' *sbatax-il-elf* '17,000' in Maltese via analogy to the indefinite article *wahd-el-*.

Tens are formed by suffixing the pl. m. to the units; e.g., Ca. *'išriin*, Maltese *għoxrin* '20'.

'100' is *miyya* (Ca.) *miyye* (Dam.) *mija* (Mal.) *imya* (Arabian dialects), *mya* (Mag.). 3–9 usually form a construct with 100; however, it is not in the plural (unlike the rule for nouns after 3–10). In the Maghreb the annexation between the number and the noun may be explicit; cf. *arba'-mya d-el-jmaal* and *arba'-myat-jmal* '400 camels'. In Cairene the unit numbers of the hundreds are like the fractions; e.g., *tultu-miyya* '300', *tumnu-miyya* '800'.

Thousands in the plural form a construct state with the unit numbers. In this case some sedentary dialects prefix to the 'thousands' a *t* (historically the *taa' marbuta* ending for masculine nouns); e.g., *xams-talaaf* '5,000' (Syr. and Pal.) as in other cases when the noun begins with a weakened *'* (e.g., *saba'-tisnaaf* '7 kinds' (Ca.), *tmen-tiyyaam* (Bag.), and *tmin-tirġiil* '8 men' (Mal.)).

Ordinal Numbers

Ordinal numbers are syntactically adjectives, following the noun. For 'first' Cairene, Damascene and other Eastern dialects have *'awwal* and *'awwalaani* (cf. Mor. *lowwel* and Mal. *l-ewwel*).

Ordinal numbers 2–10 take the CaaCiC pattern yielding in Jewish Baghdadi, due to *'imaala, tiini, tiilit, ɣiibe', xiimes*, etc. and Maltese *it-tieni, it-tielit, it-tiemin*. In Lebanese and Tunisian (e.g., Suusa) the *'imaala* is lower (*e*), yielding *it-teeni, it-teelit*. The *t* of 'sixth' is voiced to *saadis* (as in CA and MSA) in Syro-Palestinian, Iraqi and many Arabian dialects, though not 'Anaiza which has *as-saatt*, but remains in Cairene *as-saatit*, in Suusa *is-seetit*, and in Nigerian *saati*. In the Maghreb *saat(a)t* is common, but in Morocco and Algeria *saadas* occurs as well. Above 'tenth' ordinals use definite cardinal numbers, but cf. Moroccan *hadeš* 'eleventh', *taneš* '12th', Suusa *el-haadiš* 'eleventh', *it-taaniš* 'twelfth'.

Fractions

Fractions have the pattern CuC(u)C. CA 'half' shows metathesis in Tripoli (Lib.) and Suusa *nufs* and Maltese *nofs*; however, it is *nuṣṣ* in most dialects. 'one-sixth' is in Cairene *suds*, pl. *'asdaas* 'sixths'. In Suusa *tluut* 'one-third' and *zduus* 'one-sixth' show vowel reshuffling. Maltese may use the Italian loanwords *terz* 'one-third', *kwart* 'one-quarter', *kwint* 'one-fifth', but also, e.g., *mis-sitt wahda* 'one-sixth' up to *mil-għaxra wahda* 'one-tenth', etc.

Independent Personal Pronouns
Table 14.4, p. 288 lists pronouns, some of which are distinguished for gender. Sg. 1 and pl. normally have a common gender, but 'Adeni *'ana/'ani* 'I (m./f.)' is an exception. In sedentary dialects plural gender differentiation is usually more limited than in bedouin and rural ones (also in the verbs). In some Maghrebine dialects an *n* is added *humman* (Berber substratum?). Yemenite dialects have distinct pronouns in pause and juncture; e.g., nasalized *'antīn* 'you (sg. f.)' vs. *'anti* respectively.

Bound Personal Pronouns
The bound pronouns have numerous allomorphs, especially in the Yemenite and bedouin dialects (e.g., in Galilean bedouin the pl. 2m. is *-kam*). In Baghdadi *n* is added (for pl. 3m.) as in some other Iraqi and Anatolian dialects (Aramaic substratum?). In some Arabian bedouin, Syrian, and Yemenite dialects the system prefixes an anaptyctic *-a* to the bound pronoun; e.g., *beetakam* 'your (pl. m.) house' (similar to CA case endings, but not syntactically conditioned).

Demonstratives
All Arabic dialects have two paradigms of demonstrative for closer and further objects. Both inflect for gender and number, though dialects vary as to gender distinction. In the plural some dialects use the element *'uulaa* but cf. Galilean bedouin *haaðam* (pl. m.), *haaðan, haðiičan* (pl. f.). Some of the dialects use one of the elements only ("short" or "long" forms), and even reduplicatively, in the pattern *ha l-walad haaða* 'this boy' (lit. 'this the boy this one'). This pattern is mostly found in bedouin dialects but also in some sedentary Eastern and Western ones, such as the Syro-Lebanese and Moroccan dialects. Tables 14.6 and 14.7 demonstrate the richness of dialects such as Yemenite and the uniformity of the large urban centers.

Relative Particles
Compared with CA, the dialects are poor in relative particles, using mainly *illi*, which inflects neither for gender nor for number. Bedouin dialects typically have *alli*. Other dialects use the second element of the CA form (*allaðii*), namely *ðii*, yielding *(ad)di* in Moroccan. In limited cases *'aš* 'what' occurs in the Moroccan dialects. In the Iraq–Anatolia area (including Baghdad) and in the Sudan, Chad and Nigeria, the definite article is often used as a relative.

Cairene: *'illi*
Damascene: *'illi, yalli*
Iraqi (Jewish Baghdadi): *elli, l-*
Negev bedouin: *alliy*
Yemenite: *ðii, ðaa; ðee, ðeeleh*
Moroccan: *lli, di; aš*
Maltese: *illi, li*

Table 14.4 Independent pronouns in seven Arabic dialects

		Cairene	Dam.	Ir. (J. Bag.)	Negev bedouin	Yemenite	Mor.	Maltese
Sg.	1c.	ʾana	ʾana	ana	ana/anaa	ʾanaa/ʾani	ana	jien
	2m.	ʾinta	ʾǝnte	enta	int/intih	ʾanta/ʾinta	nta	int(i)
	f.	ʾinti	ʾǝnti	enti	intiy	ʾanti/ʾinti	nti(ya)	int(i)
	3m.	huwwa	huuwe/huu	huwwi	huu	huuwa/huu	huwa	hu/huwa
	f.	hiyya	hiiye/hii	hiyyi	hii	hiya/hii	hiya	hi/hiya
Pl.	1c.	ʾiḥna	nǝḥna	neḥna	aḥna	niḥna/ʾiḥna ʾaḥna/ʾanḥa	ḥna	aḥna
	2m.	ʾintu	ʾǝntu	entem	intuw	ʾantum/ʾantim ʾantu/ʾintu	ntuma	intom
	f.	ʾintu	ʾǝntu	entem	intin	ʾantu/ʾintu ʾantumna/ʾantin	ntuma	intom
	3m.	humma	hǝnne	hemmi	hum	hum/him	huma	huma
	f.	humma	hǝnne	hemmi	hin	hin/hin/hinna	huma	huma

Table 14.5 Bound pronouns in seven Arabic dialects

		Cairene	Dam.	Ir. (J. Bag.)	Negev bedouin	Yemenite	Mor.	Maltese
Sg.	1c.	-i/-ya	-i/-yi	-i/-yi	-i/-y	-i(i)-ya	-i/-ya	-i/-ja
	2m.	-ak/-k	-ak/-k	-ak/-k	-ak/-k	-ak/-ča/-ša/-ik	-ek/-k	-ok/-ek
	f.	-ik/-ki	-ek/-ki	-k/-ki	-kiy	-aki/-či/-ši/-iš/-ič	-ek/-k	-ok/-ek
	3m.	-u(h)	-h/-o	-u/-nu	-ih/-ah/-uh	-eh/-uh/-huuh	-u/-h/-eh	-u/-h
	f.	-ha	-(h)a	-a/-ha	-ha(-hiy)	-ha(a)	-ha	-ha
Pl.	1c.	-na	-na	-na	-na	-na	-na	-na
	2m.	-ku(m)	-kon	-kem	-kuw	-kum/-čum	-kom	-kom
	f.	-ku(m)	-kon	-kem	-kin	-kum/-čunna/-činna	-kom	-kom
	3m.	-hum	-hon	-(h)em	-hum	-hum/-hin/-aam	-hom	-hom
	f.	-hum	-hon	-(h)em	-hin	-een/-oon/-aam	-hom	-hom

Table 14.6 Demonstratives in seven Arabic dialects: near objects

		Cairene	Dam.	Ir. (J. Bag.)	Negev bedouin	Yemenite	Mor.	Maltese
Sg.	m.	da	haad(a)	haaða	haaða	haaðaa ðaa/ðiih/ðayy haaðihii/taa tih/ðiih/tay	had(a)	dan(a)
	f.	di	hayye/haadi	haayi	heeðiy		hadi	din(a)
Pl.	m.	dool	hadool(e)	hadooli	hoolal(ðah)	hawla/ʔulaa	hadu	dawn(a)
	f.	dool	hadool(e)	hadooli	hoolal(ðah)	hawla/ʔulaa	hadu	dawn(a)

Table 14.7 Demonstratives in seven Arabic dialects: far objects

		Cairene	Dam.	Ir. (J. Bag.)	Negev bedouin	Yemenite	Mor.	Maltese
Sg.	m.	dukha	hadaak(e)	haðaak	haðaak(ah)	ðaak/ðiiyak haaðaak	hadak	dak(a)
	f.	dikha	hadiik(e)	hadik	heeðiik(ih)	taak/tiyaak ðiik/haðiik	hadik	dik(a)
Pl.	m.	dukham	hadenk(e) hadooliik	haðoolak	hooðaḷḷaak(ah)	ʔawlaak ʔoolaak/	haduk	dawk(a)
	f.	dukham	hadenk(e) hadooliik	haðoolak	hooðaḷḷak(ah)	(haa)ðolaak ʔawlaak ʔoolaak	haduk	dawk(a)

Table 14.8 Interrogative pronouns in seven Arabic dialects

Gloss	Cairene	Dam.	Ir. (J. Bag.)	Negev bedouin	Yemenite	Mor.	Maltese
who	miin	miin	mani	min	man/min	(a)škun	min
what	ʾeeh	šuu(we), ʾeeš	aškuun, aš/eeš	eeš/iiš/wiš	maa/maadi, weyš/weeššu	š/šnu, aš	xi
which	ʾaay/ʾanhu	ʾayy/ʾanu	hayyi	yaat	ʾayyan	ina	liema
why	leeh	leeš	leeš	leeš/liiš/leeh/ liih/ʿalaamah	limaaða/lama/lima/ leyš/maalak	ʿlaš	għala
when	ʾimta	ʾeemta	eemta	mitaa(h) wagteeš	mataa/matee wayyhiin/ʾeehiin	waqtaš fuqaš	meta
where	feen	ween feen	ween	ween	weyn/ween waan/yaanhaa	fain	xħin fejn
how	izzaay/keef	kiif/šloon	ašloon	keef/kiif/kayf	keef/keyf čeef	kiifaš	kif
how much	ʾaddiʾeeh	ʾaddeeš	ašqad	gadday š/gaddeeš	gadar eeš/gadar kam	šhal qeddayš	kemm
how many	kam	kamm	kem	kam	min kam/mikkam/kam	šhal	kemm

Interrogative Pronouns

Interrogative pronouns include "wh-" question words and others. A yes–no question is introduced in some dialects by *ʾayy*, or the sg. 3 at the head of the sentence (e.g., in Cairene) or *waš, yak* (Maghrebine dialect). Other dialects (e.g., Jerusalem Arabic) have no interrogative pronoun for this kind of question, which is indicated by rising intonation. Table 14.8, p. 290 compares several particles in some Arabic dialects.

Verbal Morphology

Arabic is typologically a synthetic language with quite an involved morphology; however, the modern dialects, as can be seen in the evolution of the Semitic languages elsewhere, have all drifted towards a reduction ("simplification") of the system, i.e., they have become more analytic. (The variation of the genitival exponent is proof *par excellence* of their analytic structure as the construct state tends to be used less and less.) Further, Arabic sticks out in comparative Semitic linguistics because of its almost (too perfect) algebraic-looking grammar, i.e., root and pattern morphology. It is so algebraic that the medieval Arab grammarians have been accused of contriving some artificiality about the CA system.

Arabic dialects, on the whole, preserve CA root and pattern verbal (and nominal) morphology. All lexical items can be extracted from roots which are augmented by the discontinuous morphology of prefixation, suffixation or infixation processes. In the Arabic dialects verbs indicate time partly by conjugations. Thus, *faʿal* is used for the past, preterite, or perfect, and *yifʿal* for the imperfect which may indicate the present or future time. For the present time – including momentary, continuous, general, and perfect aspects – participles are often used. There is also an imperative mood. (See details about conjugations on pp. 292–4, and p. 304 about syntactic apsects.)

The dialects, as opposed to MSA, have innovated certain autonomous morphological markers for expressing tenses and moods. These are usually affixed to the imperfect, while the perfect does not take affixes, e.g., *bi-, qa-, da-, ku-, ka-, ta-*, for the indicative, *ḥa-, raaḥ-, ɣa-* for the future, *ʿammaal, ʿam(ma)-* for the present progressive. Thus the imperfect is often prefixed by one of them.

Some dialects are quite conservative in that they agree with CA and MSA in several respects rather than with the general tendencies attributed to either the Arabic *koiné* or drift (the norms of diachronic evolution). One of the best examples of this is the preservation of the pan-Semitic *raʾaa* 'see' in Maltese, Cypriot Arabic, Mardiin, Diyarbakir, various Judeo-Arabic colloquials, etc. To illustrate further, Sudanese Arabic preserves the *a* as the preformative of the imperfect *yaktib* 'he writes' vs. *i* in, e.g., Cairene *yiktib*. So does Nigerian Arabic *tamiš* 'you (sg. m.) go'. Sudanese Arabic also retains the internal passive; e.g., *ḥarag* 'burn' but *ḥirig* 'got burnt'. This situation is paralleled exactly by many Arabian dialects e.g., Najdi, which supports the thesis that Sudanese dialects are to be subgrouped together with them. Most dialects have, however, resorted to the external passive (see further p. 304).

Table 14.9   Perfect and imperfect affixes in Arabic dialects

	Perfect Singular Ca.	Bag.	Plural Ca.	Bag.	Imperfect Singular Ca.	Bag.	Plural Ca.	Bag.
1c.	-t	-et	-na	-na	ʾa-	a-	ne-	ne-
2m.	-t	-et	-tu	-tu	ti-	te-	ti ... u	te ... uun
f.	-ti	-ti	-tu	-tu	ti ... i	te-iin	ti ... u	te ... uun
3m.	-Ø	-Ø	-u	-aw	yi-	ye-	yi ... u	ye ... uun
f.	-it	-at	-u	-aw	ti-	te-	yi ... u	ye ... uun

Juba Arabic and Ki-Nubi, as can be understood due to their pidgin genesis, have totally lost the traditional Arabic morphological system and have one basic uninflected form of the verb, such as *ašurubu* 'drink' for all numbers and tenses (there is no gender), although a new passive has been innovated there: *áakulu* 'eat' vs. *aakulú* 'be eaten' (< 'they eat it'). Uzbeki Arabic has a verbal morphology which is different from what is presented in the following, whereas another peripheral dialect, Cypriot Arabic, has kept the basic system intact.

Subject Markers and Conjugations
Cairene and Muslim Baghdadi will be used here to illustrate the perfect and imperfect. The affixes for these two basic stems express tense–aspect, person, gender and number (Table 14.9). In general, subject markers are suffixed to the perfect and both prefixed and suffixed to the imperfect.

In rural and bedouin dialects pl. 2 and 3f. suffixes differ from the pl. m. forms, unlike many sedentary urban dialects. Thus for pl. 2f. one uses *-tan* and pl. 3f. *-an* in the former dialects. The following tables (14.10 and 14.11) are comparative.

Although all the dialects herein noted have *-t*, or *-k* (perhaps due to Modern South Arabian substrata) as 1st and 2nd person markers in the perfect, Nigerian Arabic has Ø; e.g., *tammam* 'I/you finished' (for **tammamt*). However, the *-t* is present before object suffixes; e.g., *tammamta* 'I finished it'.

Table 14.10   Perfect conjugation in seven Arabic dialects

Dam.	Gulf	Yemenite (Ḍafaar)	Yemenite (Al-Maḥall)	Tunisian (Marazig)	Moroccan	Maltese
katabt	k(i)tabt	katabt	katabk	ktəbt	ktəbt	ktibt
katabt	k(i)tabt	katabt	katabk	ktəbt	ktəbti	ktibt
katabti	k(i)tabti	katabti	katabš	ktəbti	ktəbti	ktibt
katab	kitab	katab	katab	ktəb	ktəb	kiteb
katbet	ktibat	katabat	katabat	kətbət	kətbət	kitbet
katabna	k(i)tabna	katabna	katabna	ktəbna	ktəbna	ktibna
katabtu	k(i)tabtu	katabtu	katbakum	ktəbtu	ktəbtu	ktibtu
katabtu	k(i)tabtin	katabtan	katabkun	ktəbtan	ktəbtu	ktibtu
katabu	ktibaw	katabu	katabu	kətbu	kətbu	kitbu
katabu	ktiban	kataban	kataban	kətban	kətbu	kitbu

Table 14.11   Imperfect conjugation in seven Arabic dialects

Damascene	Gulf	Yemenite Ḍafaar + Al-Maḥall	Tunisian Marazig	Moroccan	Maltese
bəktob	aktib	ʾaktub	nəktəb	nəktəb	nikteb
btəktob	taktib	tuktub	təktəb	təktəb	tikteb
btəktbi	taktəbiin	tuktubi	təktəbi	təktəbi	tikteb
byəktob	yaktib	yuktub	yəktəb	yəktəb	yikteb
btəktob	taktib	tuktub	təktəb	təktəb	tikteb
mnəktob	naktib	nuktub	nəkətbu	nəkətbu	niktbu
btəktbu	taktəbuun	tuktubu	təkətbu	nəkətbu	tiktbu
btəktbu	taktəban	tuktubayn	təkətban	nəktəbu	tiktbu
byəktbu	yaktəbuun	yuktubu	yəkətbu	yəktəbu	yiktbu
byəktbu	yaktəban	yuktubayn	yəkətban	yəktəbu	yiktbu

In some dialects the pl. 2m. and 3m. endings are *-um* or *-am* (Yemenite, Galilean bedouin) rather than *-u*. Even in Cairene one can say *katabu* or *katabum* 'they wrote', *tiktibu* or *tiktibum* 'you write (pl., m., f.)', perhaps on the analogy of *humma* 'they', though Cairene *gum* 'they came' is more common than *gu* (cf. pl. 2m. object – *ku(m)*). Many bedouin and bedouinized dialects have the *-n* form for pl. f. persons (perfect *-in ~ -an*, *-tin ~ -tan*, imperfect *-in ~ -an*).

The f. *-iin* (also *-ayn ~ -een*) and *-uun* (also *-awn*, *-oon*), as in MSA, are found in bedouin and bedouinized dialects, and it is a common feature of the *qəltu* dialects. They are not present in Meccan Arabic, demonstrating that it is closer to the urban Egyptian–Levantine dialects than to Gulf Arabic. Cf. Tikrit *ykətbawn*, Jewish Baghdadi *ykətboon*, Mosul *yəkətbuun* and Muslim Baghdadi *yikitbuun* 'they write'.

The Verb Forms
Most dialects have preserved the system of the CA derived stems. Even a peripheral dialect, such as Nigerian Arabic, preserves the distinction between Forms I and II; e.g., *širib* 'he drank' and *šarrab* 'cause to drink' as in *šarraba alme (leyya)* 'he caused him to (made him) drink water'. In Chadian Arabic only Forms II and VII are productive; however, this situation is somewhat rare. Form II is probably the most common, statistically, of all the derived stems in many dialects; however, not all the meanings of Form II are "derived," in the sense that Form I is not used with the same roots. In Sudanese Arabic, for example, the following are basic: *gannub* 'sit', *ʿarras* 'marry'. Sometimes an MSA derived stem becomes a basic one; e.g., *ʾaraad* 'want' (Form IV) > *raad* (Form I). Form IV has thus been lost in many dialects, while Form II has often become a productive causative stem. Some dialects have innovated new patterns, notably Egyptian *ʾitwagad* 'it/he was found' (with preformative *t-* affixed to Form I), and *istaxaffa* 'he disguised himself' (with preformative *ist-* affixed to Form II of C-*w/y* roots), Moroccan *ttəjraḥ* 'was wounded' (with a geminated preformative *tt-* and Form I), and Maltese *in-*

steraq 'was stolen' (affixing both *in-* of Form VII and *t-* of Form VIII to the root).

Form I

Form I applies only the root consonants. The dialects, however, diverge by vowel variations. Thus, Yemenite has four major types (one more than MSA): *ragad* 'he slept', *širib* 'he drank', *wugif* 'he stopped', and *ʿuṭus* 'he sneezed'. The last type usually contains an emphatic or is a passive; e.g., *kumul* 'it was completed'. (Many dialects still preserve the internal passive, e.g., *ksir* 'it was broken'; see p. 297.) Damascene has two types: *katab* 'he wrote' and *šareb* 'he drank'. These two merge in Moroccan Arabic to one: *ktəb*, and *šrəb*. Maltese has six basic patterns: *talab* 'he asked', *qatel* 'he killed', *fehem* 'he understood', *seraq* 'he stole', *ġibed* 'he pulled', and *ħolom* 'he dreamt'.

Form II

Many verbs in this category are transitive causatives of Form I. Thus in Yemen *daras* 'he studied' contrasts with *darras* 'he taught'; but some are basic, e.g., Yem. *xazzan* 'he chewed qat'. In Juba Arabic *derisu* can be either 'study' or 'teach' (note the degemination). Moroccan *nuwweḍ* has a causative sense: 'to cause to get up, get out of bed' contrasts with *naḍ* 'get up, get out of bed', whereas an intensive and denominative meaning can be illustrated by Damascene *kassar* 'he smashed' and *ṣawwar* 'he took a picture' (cf. *ṣuura* 'a picture'). Maltese follows the others: *kisar* 'he broke' vs. *kisser* 'he smashed'; *xemmex* 'he exposed to the sun' from *xemx* 'sun'. In all derived Forms (II–X) in Cairene *a* follows C2 when it or C3 is emphatic or guttural while other roots take *i*; e.g., *labbis : yilabbis* 'dress someone', *naḍḍaf : yinaḍḍaf* 'clean something'.

Form III

Form III verbs are often derived from nouns or from Form I verbs. In Yemenite *ḥaaka* 'he engaged someone in conversation' contrasts with *ḥaka* 'he talked'. Moroccan has very few verbs in this category, for which the pattern is *ṣafef* 'he lined up'; however, the final vowel may elide giving *ṣaff*. Damascene serves as illustrative of the conative or participative meanings: *kaatab* 'he wrote to someone' vs. *katab* 'he wrote', *laaḥaʾ* 'he pursued someone' vs. *ləḥeʾ* 'he caught up with someone'. Maltese shows *ʾimaala* in *bierek* 'he blessed' (= MSA *baaraka* 'he blessed'), *bieghed* 'he put at a distance' (cf. *boghod* 'distance').

Form IV

Yemenite still has this form though it is not common. It is characterized by an optional *ʾi-* or *ʾa: (ʾi)bṣar* 'he saw' or *(ʾi)xraj* 'he excluded'. It is still very much alive in bedouin dialects. Form IV usually occurs in MSA borrowings or classicisms. It has often been replaced in dialects by Form II. There are only remnants of it in Maltese and many other dialects. Mauritanian Arabic dialects use *sa-* as prefix instead of *ʾa*, e.g., *saḥmar* 'he made red, reddened'.

Form V

Often a reflexive counterpart of Form II, Form V prefixes *t-* to a Form II verb. Thus, e.g., Yemenite *ɣadda* 'he gave someone lunch' vs. *tɣadda* 'he ate lunch', *twaṭṭa* 'he/it lowered himself/itself' vs. *waṭṭa* 'he lowered something'; some verbs in Form V are really passive (see directly below). Some verbs in this class are basic (not derived from Form I): *tšaggar* 'he peeked'. In Syrian–Lebanese–Palestinian dialects Form V is most often a passive or reflexive of Form II; thus most of these verbs are intransitive; e.g., *ɣayyar* 'he changed something' : *tɣayyar* 'it changed, was changed'. Compare Cairene *ʿallim* 'teach' : *itʿallim* 'he learned', *ḥabb* 'love' : *itḥab* 'it was loved', or *itʾal* 'it was decreased'. The situation in Moroccan Arabic is quite different from the Eastern dialects. Here *t-* or *tt-* is prefixed to Form I or II verbs with possible assimilation; from *šaf* 'he saw' one obtains *(t)tšaf* 'he was seen'. Consider also: *zad* 'he added' and *dzad* 'it was added', *ṭehher* 'he circumcised' vs. *ṭṭehher* 'he was circumcised'. Maltese prefixes *t* to Form II and assimilates it before *ċ, d, ġ, n, s, x, ż* and *z*; e.g., *ċaḥḥad* 'he denied' and *iċċaḥad* 'he denied himself'. The Egyptian and Maghrebine dialects have preserved the reflexive passive *t* which is possibly reinforced by substratum (cf. Aramaic *ʾeθpaʿel*). In some bedouin dialects the preformative *t* may be omitted in the imperfect (by haplology); e.g., Galilean bedouin *yinaggaluun* 'they roam' for *yitnaggaluun*.

Form VI

Form VI verbs often denote reciprocity, pretense or are passive or denominative. In Yemenite one prefixes *t(a)* to Form III verbs. Thus from *ʿaafa* 'he cured someone' we derive *tʿaafa* 'he recuperated'; from *mayyit* 'dead' there is *tamaywat* 'he pretended to be dead'; from *gaabal* 'he met someone' *tgaabal* 'he had a meeting with someone'. Damascene is similar; e.g.: Dam. *tbaarak* 'he was blessed', *tkaatabu* 'they corresponded with each other'. So do also Moroccan and Maltese; from Moroccan *ḍay(ə)f* (III) 'receive as a guest' : *ḍḍay(ə)f* 'be received as a guest' with assimilation of the *t*. From Maltese *biegħed* 'he placed far off', *tbiegħed* 'he went far away'. Here, too, there is an assimilation of *t* before *ċ, d, ġ, s, ż* and *z*. Cf. in Ca. *itbaarik* 'he was blessed', *itʿaamil* 'he was treated' (due to the phonological rule mentioned on p. 294).

Form VII

Form VII is formed by prefixing *(i)n* to C1 of the verb. There is a phenomenal variation among the dialects here. In Damascene it borders on being a productive passive of Form I; e.g., from *ḥabas* 'he imprisoned', *nḥabas* 'he was imprisoned', from *saʾal* 'he asked', *nsaʾal* 'he was asked'. But in Yemenite Form VII does not occur and it is rare to non-existent in the Maghrebine dialects in general. Two examples are, however, *ndfən* 'he was buried' from *dfən* 'he buried', and *nšmət* 'he was cheated' from *šmət* 'he cheated'. Examples from Maltese include the reflexive and passive meanings of Form I; e.g., *indaħal* 'he interfered' from *daħal* 'he entered' and *inqabad* 'he was caught' from *qabad* 'he caught'.

Form VIII

Form VIII is formed by infixing *t* after the first radical of a Form I verb. In Yemenite these are mostly passive; from *kassar* 'he broke' *ktasar* 'it was broken'. Some are reflexive, while others are denominative or derived from Form IV. Cf. *btall* 'he wet himself' vs. *ball* 'he made something wet'. Damascene is again similar; e.g., *nta'al* 'he was transported' from *na'al* 'he transported something'. Moroccan and other dialects seem to have independent and/or idiosyncratic meanings associated with this form; e.g., *xtaraʿ* 'he invented, imagined'. In Maltese one often encounters a reflexive or passive meaning; e.g., *ftaqar* 'he became poor' from *faqar* 'poverty' and *intesa* 'it (he) was forgotten' from *nesa* 'he forgot'.

Form IX

This Form, reserved in CA and MSA for colors and defects, is not common in the dialects which use Form II instead; e.g., Yemenite *hammar* 'it turned red'. It still occurs in Damascene, though rarely; e.g., *ḥmarr* 'it turned red'. Moroccan has no reflex of this form. Rather it uses Form XI (also in CA exclusively for colors and defects); e.g., *sman* 'he became fat', *byaḍ* 'it became white'. Maltese is remarkably similar to Moroccan; cf. *ḥdar* 'it turned green' from *aḥdar* 'green (sg. m.)' or (with *'imaala*) *swied* 'it grew black' from *iswed* 'black (sg. m.)'. (Cf. the striking similarity in vowels to Cairene *'iswid*.)

Form X

This form is formed by prefixing *sta-* to Form I, but is also derived from nouns or adjectives. Cf. Yemenite *stajaab* 'he responded' from *jaawab* 'answer'; *starxaṣ* 'he found something cheap', from *raxiiṣ* 'cheap'; *sta'nas* 'he had a good time', from *winseh* 'fun, good time'. Damascene is similar; e.g., *staṭwal* 'he considered something long' from *ṭawiil* 'long'. Moroccan prefixes *sta-* before a CC- stem, or *st-* before a CV- stem; e.g., *staxbar* 'make inquiries', *styəll* 'take use of'. Likewise Maltese: *stagħġeb* 'he was amazed' from *għageb* 'a marvel' or *stkerrah* 'he loathed' from *ikrah* 'ugly (sg. m.)'.

The Quadriliteral Verb

As in other Semitic languages, CA and MSA, the dialects have quadriliteral roots. There are four basic types, as illustrated by Yemenite Arabic: (1) 1234, *qambar* 'he sat down'; (2) 1233, *qardad* 'it gnawed'; (3) 1232, *ʿanwan* 'he addressed (a letter)'; and (4) 1212, *rašraš* 'he sprayed'. Some derived quadriliterals have no base forms; e.g., *tšawraʿ* 'he walked in the street', *tgambaʿ* 'he jumped for joy'. Maltese has five possible vowel patterns: *qahqah* 'he hacked', *qarmeč* 'he crunched', *temtem* 'he stuttered', *tertaq* 'he shattered', and *bixkel* 'he cheated'. Passives/reflexives are formed by prefixing *t* to the root; e.g., Damascene *taržam* 'he translated' : *ttaržam* 'it was translated'.

The Weak Verb

The Semitic languages have intricate morphophonemic rules for the conjugation

of the weak verb. Arabic dialects, like MSA, are not exceptions. There are irregularities of the defective, hollow and doubled verbs which need not concern us here. The sedentary dialects have evolved differently from CA in that some differences have been neutralized; e.g., III-*w* > III-*y* verbs (so, too, in Hebrew and Syriac). The doubled (geminate) verbs have, due to *Systemzwang*, also merged with III-*y* roots. The other Semitic languages also merged doubled roots (e.g., Akkadian and Ethiopian) with the strong ones.

The Passive
n- and *t-* passives have already been mentioned. Let us turn to the various geographical areas in which internal and external *n*, *t* passives occur. In Syro-Palestinian dialects, more than half of all Form VII verbs are passive in nature. Form VIII verbs are lexicalized and only 20 percent are passive. Internal passives are cited in the literature (e.g., *tuḍrab* 'may you be hit' reported for Damascene by G. Bergsträsser), yet it remains unclear to what extent they are not the result of MSA influence in this region. Verbs in Forms V and I occur also with passive sense in all dialects.

Many examples of Form VII passives can be cited for the Iraqi *qəltu* dialects. There are also a few cases of Form VIII passive, but only a few examples of internal passives: *xalṣət lə-fluus* 'money was used up'. The Iraqi-area *gələt* dialects use Forms VII and VIII extensively to mark the passive. There are also a few cases of an internal passive; e.g., *xluṣet el-ḥičaaya* 'the story is finished'.

Uzbeki and Afghan Arabic use Form VII for the passive and no cases of an internal passive are attested with either.

Forms VII and VIII are common in Egyptian Arabic. A few cases of the internal passive occur: *xiliṣ ~ xuluṣ* 'it was finished', *ṣuɣur ~ ṣiɣir* 'it became small' and *ximir ~ xumur* 'it fermented' (Form I).

Chadian Arabic uses Form VII for the passive. Internal passives also exist there; e.g., *sirig* 'it was stolen' (cf. Nigerian Arabic *xalaaṣ ~ xuluṣ* 'it finished'). It has probably also developed into an *l-* type, documented also for the Egyptian cases and for Nigerian Arabic in which *al-* also shows up commonly for the more "normal" *t-*: *alkallam* 'he spoke' and *alqadda* 'he had lunch'. There are also in Nigerian Arabic, however, clear-cut cases of *al-* passives: *alkarfaš* 'become wrinkled', *alkaršam* 'wither (intr.)', and *alkassar* 'be broken'.

Maghrebine sedentary dialects are divided into those that use *n-* and those that use *t-*. The latter prefix *t-* or *tt-* to Form I. This group includes Muslim and Jewish Tunisian, Susa and Takrouna and the large cities of Morocco. The *n-* dialects are those of Fez (J.), Tetwan, Tlemçen, Oran, Cherchell and Algiers. Finally, there are some dialects which normally use a combination of both *n-* and *t-*. Two such are Djidjelli and Maltese; cf. Maltese *instab* 'was found' from *sab* 'find'. Maltese also uses phrases with *kien* 'be' or *safaʾ* 'was reduced to the condition of', or even *ġie* 'come' + passive participle, e.g., *safaʾ maqtul* 'he was killed'.

There are a few documented cases of internal passives for the Maghrebine area: *xlaq, yaxloq* 'create', *xluq, yuxluq* 'be created'. A few verbs across the Maghreb

use an internal passive in CCaC: *xlaq* 'was born', *ʿwaž* 'become bent, twisted'. Fez (J.) also has *xlaʾat* 'she was born'.

Algerian Hilali dialects have generally *t*- passives; however, *n*- occurs sporadically. There are examples of an internal passive in Bou Saada, Mzaab, 'Ain Madi and Arbaaʿ: *ksur* 'he went bankrupt'.

Mauritanian Arabic shows a unique development which could be the result of Berber substratum (or result by analogy from the *u* of the imperfect). Although the productive passive marker with Form I is *n*-, there are some Form VIII passives as well. However, with Forms II and III, including the unique *s*- causative stem (e.g., *saḥmar* 'make red'), there is an *u*- passive in the perfect as well as the imperfect. Thus (Form II) *ubaxxar* 'he was perfumed with incense', impf. *yubaxxar*, imp. *ubaxxar*, part. *mubaxxar*, and (Form III) *gaabal* 'he met' : *ugaabal* 'he was confronted with', and with quadriliterals: *säkräf* 'he bound' : *usäkräf* 'it was bound'; *sägbäl* 'he guided towards the south' : *usägbäl* 'he was guided towards the south'.

In the Arabian Peninsula, urban Hijazi and Yemenite use both *t*- and *n*-. The internal passive is more frequent in bedouin(ized) dialects. Cf. *sugii* 'it was irrigated'. Southern Arabian has VII and VIII; the internal passive was alive and well during C. de Landberg's fieldwork in Dathina and Hadramawt. According to C. Holes (1995), *n*- is now replacing the internal passive all over Oman; he observes that Forms I and II internal passives are still common and are a feature keeping them apart from Eastern Arabian while aligning them with Najdi (see below). Thus, e.g., *kaan* 'he was', vs. *giṣṣat* 'was cut'(imperfect *yigaal* 'it is said').

The Northern Arabian dialects, including parts of Jordan, Syria and the Gulf, use both Form VII and the internal passive. Najdi and Qatari dialects are reported to use the internal passive more than the external one. According to P. Abboud (1964), there is even a difference in meaning between the two: *inkisar* means 'it got broken by some outside unspecified force', whereas *ksir* means 'it was broken by an outside agency known but not indicated'. For the derived stems in this area most verbs use *t*- or *n*-.

Syntax

Much of the syntax of Arabic dialects is similar to that of CA and MSA. The basic structures include nominal and verbal clauses which may be simple, compound or complex, but spontaneous speech may diverge from the fixed patterns yielding types such as cleft sentences and holophrases. We start with basic syntactic categories – definiteness, concord and word order, followed by NP, VP sentence types and "deviant" structures.

Definiteness

Definiteness is a feature of the NP (see pp. 300–300). A noun may be indefinite or definite. The explicit marker of nominal definiteness is the definite article *il-*, *el-*, *al-* (the latter is typical of bedouin dialects) or *l-*, which is prefixed to the de-

fined noun. Definiteness is implied when a noun is bound, i.e., when a personal pronoun is suffixed to it, when it is the first noun in a construct state and its second noun is definite or is a proper noun. Free personal pronouns are also implicitly definite.

The indefiniteness of a noun is usually unmarked. Some dialects, however, mark this state: in Moroccan dialects, e.g., the particle *waḥd el-* (lit. 'one of the') is prefixed to the noun (see Fischer and Jastrow 1980: 88); in Iraqi Arabic *fard*, *fadd* (lit. 'single') has a similar role while Maltese *wieħed* (lit. 'one') marks indefiniteness.

Residues of CA nunation are still used productively in some bedouin dialects (mainly in the Arabian Peninsula). The occurrence of this nunation is limited in its distribution to certain nominal phrase structures, mainly nominals + adjectives, where the nunation affects the first member of the phrase, i.e., the nouns or the active participles only. It also occurs in complex conjunctions such as *yoomin ma* 'when' (e.g., Bahraini Arabic). In Najdi Arabic this *-in* denotes "one single but undefined member of a class whereas the absence of the marker means purely 'a member of the class in general'" (Ingham 1982: 53–54).

Noun Phrases: Genitival Exponents

In Arabic dialects the genitive is often indicated by the construct state between two nouns or by suffixing a bound pronoun to the noun. The definition of a construct is normally done by *el-* prefixed to the second noun, e.g., Jer. Ar. *bint el-malik* 'the king's daughter'. A suffixed pronoun prevents the use of the definite article; e.g., Jer. Ar. *beeti* 'my house', *ṣuurti* 'my picture'.

Most of the dialects developed analytical possessive particles from various nouns, which led to a functional distinction between the construct state and phrases with the genitival exponent. Most dialects prefer the construct state with inherent possession of body and kinship members; e.g. Ca. *ibn el-ʿamm* 'cousin (m.)' or Jer. *ižr el-walad* 'the boy's leg', and lexicalized compounds; e.g., Mor. *ma l-ward* 'rose water'. The more "external" or "temporary" possession is indicated by the genitival exponent. This is useful to: (1) control each noun for definiteness, emphasis, adding adjectives or a personal pronoun to the whole compound or any of its parts; (2) form genitival phrases with more than two words (the "default" in a construct state); and (3) use the construct state with words which have irregular syllabic structures often due to their foreign origin. These features increase the flexibility of the structure along with its distribution. Some dialects inflect the particle for number and gender and make it agree with its head noun.

The following list is illustrative of the diversity:

Bag. Ar. *maal* (< *maa li-* 'what to, what he has');
Mes. and Anatolia *ðiil* (lit. 'which to, what he has'), *ðiila, ðeel, ðeela, leel, lee, liit, laat* ;
Syr. *tabaʿ* (lit. 'following' or metathesized form of **bataʿ*), *šeet* (lit. 'thing of'), *šyaat;*

Pal. *taba^c*, *btaa^c*, *šuγl* (lit. 'work of'); *šeet*; *šiit*;
Negev bed. *šuγl*;
Galilee bed. *ḥagg* (lit. 'the right of');
Ca. *bitaa^c*, *bituu^c*;
Eg. (except Ca.) *ihniin* (m.) *ihniit* (f.);
Chad. *hana* (inflected *hanay*, *hanaak*, etc.), *hine(e)*; these also occur in Nig. Ar. besides *hiil*, *hille*;
Sud. Ar. *huul*, *hiil*;
Oman and Zanzibar *haal*;
Mag. *mtaa^c* ('the property of'), *ntaa^c*, *taa^c*, *ddi*, *di*, *d*, *dyaal*;
Mal. *ta'*, *tagħ-*, *tiegħ-*.

Noun Phrases: Nouns + Attributes

Normally in Arabic dialects, nominal attributes (such as adjectives) follow the N-head. They are usually definite according with their N-head, cf.: *beet kbiir* 'a big house' vs. *el-beet el-kbiir* 'the big house' in Jerusalem Arabic. In some dialects (mainly Iraqi, Maltese, and Moroccan) either the noun or the attribute may be definite under certain conditions; e.g., Moroccan *jaamə^c-l-kbiir* 'the great Mosque' (lit. 'mosque the great'), *baab-l-jdiid* 'the new gate' (lit. 'gate the new').

Demonstratives (deictics) show partly conditioned fluctuations between pre- and post-nominal position, as also in MSA. When in attributive role the demonstrative normally precedes the (definite) head noun. However, when the head noun itself is a construct or includes a bound pronoun suffix, the demonstrative follows the NP.

Mainly in Syro-Palestinian, Tunisian and Moroccan dialects (with apparently ex-bedouin origins) there is a double demonstrative structure of the pattern *ha(d)* + definite NP + *haaδa* 'this + def. NP + this'. The first part is often short (e.g., *ha-*) and seems to have lost much of its deictic power so that the demonstrative meaning is supplied by the full form following the NP:

Dam. Ar. *ḥal-banaat həlwiin ktiir* 'these girls are very pretty';
Yem. (North) Ar. *lihaaδa s-sabab* 'for this reason';
Tun. Ar. *ummi lkbiira haadi* 'this grandmother of mine';
Mal. *dawn it-tfal maltin* 'these (pl. dem.) children are Maltese';
Ca. *xalla l-ḥayyĭ-da farḥaan* 'he left this person happy';
Mor. Ar. *had-ar-ražel*; also: *had-ar-raajel-haada* 'this man';
Gal. bed. Ar. *fallet ha-l-^cabed-haaδa* 'she said: let this slave go free'.

Word Order

Unlike CA and MSA a frequent and unmarked (i.e., unstressed) word order in sentences in Arabic dialects is subject–predicate for both nominal and verbal clauses, though also VS and V(S)O are also frequent. Since normally the number and/or gender of a V(P) are morphologically marked, its referent subject can be understood from the context (unless first mentioned). If not at the head, the verb

seems to prefer the second place in a clause after a subject or an adverb, e.g.:

Subject–Predicate

Ca. *wu di ʾabriiʾ* (lit. 'and this jug') 'and this is a water jug';

Druze (Gal.) *turkiyya nkasrat* 'Turkey has been defeated';

Dam. Ar. *ʾana jibt-al-kutub* 'I brought the books';

Mor. Ar. *wəl-ʿaadaat əl-ʿaṣriyya dyal l-mdina šəkl axor* 'and the modern urban habits are different';

Mal. *il-Maltin jistudjaw ħafna l-ingliz* 'the Maltese study English a lot'.

Verb–(Predicate)–Subject

Ca. *bassi-karr-riiħ kuwayyis* 'but there was a good wind';

Dam. Ar. *ʾəli ʾaxxeen kbaar tneen* 'I have two big brothers';

Aleppine Ar. *xalṣet el-ħəfle hayye* 'this feast ended';

Arabian Ar. *maa fiih xuðratin halħeel* 'there is not much grass';

Yem. Ar. *lagyuu ðaak im-ðiib* 'they met this wolf';

Lib. (Eastern) Ar. *naadir yaakil f il-laħam* 'he rarely eats meat';

Mal. *Iħobb ʾl-Alla* 'he loves God'.

An interesting inversion type exists in, e.g., Cairene, Jerusalem and Moroccan dialects: *ʾabel huu ma yišrab* 'before he drinks' for *ʾabel-ma*, where the subject precedes *ma* of the subordinate particle instead of following it. Similarly, in Damascene *laazem tkammlu ʾana lli ħtaramt menno* 'you must finish what I have been hindered from', the subject pronoun precedes its subordinate relative clause particle.

Agreement (Concord) Rules

As in CA, an adjective agrees with its head noun in definiteness, gender and number and a verb agrees with its subject in number and gender. A non-human head noun governs a sg. f. form; e.g., Mor. Ar. *mšat ʾiyyaam ujat ʾiyyaam* 'days went (sg. f.) and days came (sg. f.)', Mal. *sitt bajdiet moqlija* 'six fried (sg. f.) eggs'.

Dialects which do not distinguish gender in the plural of verbs and adjectives may deviate from the above "general Arabic"; e.g. Ca. *banaat il-beet il-ħilwiin* 'the beautiful girls of the family'; Lib. Ar. *binaat ikbaar/kibiiraat* 'big girls'. Unlike CA, "real dual" nouns do not govern dual agreement in the dialects but rather the pl. and sg. f. for pseudo-duals; e.g., Ca. *biteen kubaar* 'two big houses' vs. *ideen ṭiwiila* 'long hand, arms'.

In Arabic dialects the real-life number category often overrules the formal rules, not only when the noun is animate:

Ca. *fareen miṣaħbiin baʿḍ* '(there were) two mice (who) were friends (pl. m.)';

Gal. bed. Ar. *buu miʿza li insargan* 'there are goats of mine which were stolen

(pl. f.)';

Arabian Ar. *alkanabah wa assariir aljudud* 'the new (pl. m.) sofa and bed';

Mor. Ar. *utəlbs ḥwaiž mzyanin nqiyin* 'and she wears good, clean (pl. m.) clothes';

Mal. *dawn huma l-flus li bihom ħallast il-ħaddiem* 'this (pl. m.) is the money with which (pl. m.) I paid the worker'.

Negation

Verb negation is usually marked by *ma(a)* in both Eastern and Western dialects, but *muu-b* is typical of many Arabian bedouin dialects. *muu* or *mii* negates nominal members in Syrian as well as many bedouin dialects and *moo* in Mesopotamian and Anatolian. Often *š* (< *šay*ʾ 'thing') is suffixed to the negating particle yielding, e.g., *muš*, *miš*. Compare:

Ca. *muš ilwalad* 'not the boy';

Dam. ʾ*əntu muu wlaad* 'you are not children';

Mes. *qaal mana jooʿaan* 'he said, I am not hungry';

moo yešrab 'he does not drink';

Mor. *maa fiiha* (+ *š*) *baas* 'there is nothing wrong in it';

Mal. *hi m'hix ~ m'hijiex marida* 'she is not ill'.

Negation of the imperative (= inhibition) or two coordinated nouns uses *maa* and in some dialects *laa*. Thus Ca. *ma txaaf! ma yiʾdarši yiḍḥak ʿalayya* 'don't worry! he can't get the better of me'; Dam. Ar. *ma bəstəγni ʿannak wəla bxalliik truuḥ* 'I can't do without you and I won't let you go'; Mor. *laa truuḥ* 'don't go!'.

laa is also the absolute negation particle which in some Eastern dialects (Cairene, Jerusalem, Galilean and Syro-Lebanese) is often lengthened into *laʾ(ʾa)* or *laʿ(ʿa)* (Yem.). Demonstrating diversity here is the Yemenite case in which 'no' can be *laʾ*, *laʿ*, *laas*, *lawm*, *loom(i)*, *da(w)ʾ*, *duwwayy*, *maʿ*, *maʾ*, *maʾh*, *maašii*, *maaʾlah*, *lees*, *lays*, ʾ*abaʾ*, ʾ*abeʾ*.

Interrogation

The two main types are sentence (yes–no) and pronominal (wh-) questions. For confirmation only a few Arabic dialects use an interrogative at the head of the sentence; e.g., Ca. *huww-anti zaʿlaana?* 'are you (sg. f.) angry?'; in Moroccan there are *waš*, *yak*; e.g., *yak-ana qult-lkum* ʾ*intu ta-taklu ʿen-diyalkum?* 'didn't I tell you you were eating on your own?'. In Cairene and Libyan Arabic *š*, *ši* or *šu* may be suffixed to the end of a sentence for interrogation of yes–no questions; e.g., ʿ*andakši sagaayir?* 'have you any cigarettes?'.

Interrogative particles usually come sentence initially:

Dam. *šloon bəddak tbaṭṭlo?* 'how do you want to fire him?';

Yem. *maalak maa jiitan?* 'why haven't you come?';

Mor. *škun l-qlb bla hmm?* 'who is the Untroubled Heart?';
Mal. *liema ktieb?* 'which book?'

In Egyptian and Sudanese these particles take their place within the clause in the normal word order:

Ca. *biti'mil eeh?*
(lit. 'you are doing what?')
'What are you doing?';
ma byištayaluuš leeh?
(lit. 'they aren't working why?')
'Why aren't they working?';
Sud. Ar. *'aawza nahaḏḏir šinu?*
(lit. 'you (sg. f.) want me to prepare what?')
'What would you like me to prepare?'

The Use of Copulas

Usually independent pronouns of the 3rd person (sg./pl., m./f.) serve as copulas indicating the present both in nominal and verbal clauses, or are the base for the copulas. In most dialects nominal copulas come between subject and predicate; e.g., Dam. *haada **huwwe** zzalame* 'this is the man'; Mal. *l'Italia **hi** art sabiħa* 'Italy is a beautiful land'.

In the *qəltu* dialects as well as Uzbekistan a special post-positional copula developed; e.g., Bag. *kalebna kelleš zeen **yaanu*** 'our dog is very nice'(copula: *yaanu*); Anat. *haada mešṭi-**we*** 'this is my comb' (copula: *we*); *naayme-**ye*** 'she's asleep' (copula: *ye*); *hawya lγanam mən haak əlbayt-**ən*** 'these sheep are from that house'(copula: *ən*). This *ye* in Nigerian is an intensifier which follows independent pronouns: *humma-**ye*** 'they themselves'.

Possessive Clauses ("Have")

Unlike some non-Semitic languages, Arabic (including both written and colloquial) uses a prepositional phrase structure to indicate possession which elsewhere is expressed by a verb such as "have."

The phrase is based on inflected prepositions such as *'ind-, ma'a-* or *'il-* which may be translated into English by 'by, with, to (someone)', respectively (but are perhaps more similar to the structure in Russian).

Word order in such sentences usually requires that this phrase should precede the subject:

Jer. Ar. *'ili waladeen ubint* 'I have two children (boys) and a girl (daughter)';
'indi talat γuraf 'I have three rooms';
Ca. *'andak tiffaah, min faḏlak?* 'Have you any apples, please?'
Mor. Ar. *'ndu flus bzzaf* 'he has a lot of money';

Since prepositions do not carry temporal meanings, the verb *kaan* 'be' is used as an auxiliary to indicate possession in the past or the future, as in other cases of prepositional phrases in Arabic. Thus, e.g.: Yem. Ar. *kaan ma'na baṭṭaariyya* 'we had a battery'; Mor. Ar. *kaan mrra jḥa 'ndu waḥd-l-bqra* (lit. 'it was once, Juha has a cow') 'once Juha had a cow'.

Verb Phrases: Tenses, Moods, Aspects

Three important syntactic categories of the verb are tenses, aspects and moods. The perfect refers to a completed action which usually occurred in the past (preterite). The imperfect is an action which is nonpast or not yet completed. But the perfect is used also in conditionals or optatives without necessarily referring to time, and the imperfect can appear in narrating past events. In Jerusalem and Syrian dialect the negation particle + imperfect with an additional stress on the verb denotes the jussive; e.g., *ma túktub* 'well, write then!'.

Aspects are mainly the indicative and subjunctive. The latter is unmarked morphologically, while the former is marked by prefixes (cf. p. 291). The indicative prefix occurs mainly in sedentary dialects, while bedouin ones hardly use it. Though some exceptions occur (e.g., the Negev), this may be considered a highly characterizing syntactic feature for the bedouin/sedentary dichotomy.

As the imperfect indicates an aspect rather than a tense, some dialects have developed time particles. For the future these are: *raaḥ, raayiḥ, ḥa-* (< 'going') in Cairene and Syro-Palestinian dialects, *di-, d-* in Iraqi, *b, bba-, bbi-, yabi-* (< 'want') (and its inflection) in some Arabian, Yemenite and Libyan dialects, and *ɣa, ɣadi* (< 'going') in Moroccan, while *'am-, 'ammaal* (< 'working') in the Syrian–Lebanese–Palestinian area and *taw* (< 'immediately') in the Maghreb denote the present progressive.

Other verb aspects are expressed by an auxiliary followed by the (semantically) main verb. Tense differences between the auxiliaries and the main verb affect structural meaning. The lexical meaning of the auxiliary gives the phrase its precise aspectual role:

Ca. *yimkin ḥa-yḥibbī yiigi yšuufna*
(lit. '(sg. 3m.) possible future particle will-want (sg. 3m.) will-come (sg. 3m.) will-see-us (sg. 3m.)')
'Maybe he will wish to come to see us';
yiẓhar kaan yi'uuz yiruuḥ yaakul
(lit. 'seems (sg. 3m.) was (sg. 3m.) will-want (sg. 3m.) will-go (sg. 3m.) will-eat (sg. 3m.)')
'It seems that he wanted to go to eat';
Dam. *xalliina ne''od ma'ak*
(lit. 'let (sg. 2m.) us will-sit (pl. 1) with-you (sg. 2m.)')
'Let us sit with you';
beddi ḥeṭṭek tet'allami lexyaaṭa
(lit., 'wish-my will-put (sg. 1) you (sg. 2f.) will-learn (sg. 2f.) the-sewing')

'I wish to have you learn sewing';
Gal. bed. *yiṣiiruun yijirruun bal-xeeṭ*
(lit. 'will become (pl. 3m.) will pull (pl. 3m.) with-the-string')
'They start pulling the string';
Ara. *hiyya gaaʿda tilʿab*
(lit. 'she sitting (sg. f.) will-play (sg. 3f.')
'She is playing';
Lib. *tibbi tixrij*
(lit. 'will want (sg. 3f.) will-go-out (sg. 3f.)')
'She wants to leave';
Mal. *kont ~ qed naqra l-gazzetta xhin wasal*
(lit., 'was (sg. 1) (or: particle) will-read (sg. 1) the-paper when arrived (sg. 3m.)')
'I was reading the paper when he arrived'.

Reference to the present is complex, due to the partial overlap between the active participle and the imperfect. In, e.g., Syro-Lebanese and Egyptian bedouin and sedentary dialects, the active participle refers to the present in verbs of motion, spatial location and senses, while in other verbs the participle may indicate resultative, perfective, static or progressive.

The imperative is used for commands. A pre-imperative prefix *de* is used in the Mesopotamian dialects; e.g., *detnaawal ṭareeqek* 'get off (on) your way'. The "imperative of narration" is frequent in bedouin dialects, as well as in some sedentary ones (according to Piamenta), and appears in various narrative genres instead of the perfect; e.g., *falleel lamma lkull rawwaḥ, gum yaa xaaḷah, wuugd annaar* 'at night, when everyone had gone home, his uncle got up, kindled the fire ... ' (Blanc 1970).

Verb Phrases: Transitivity and the Active and Passive Voice

Though the rate of use of the passive is much lower in Arabic dialects than in MSA (or English), transitivity is a basic syntactic feature of verbs with semantic as well as morphological implications. Active–passive transformations are possible with transitive verbs. Passive sentences in the dialects can be classified into two groups: (1) transformations of active agentive sentences, and (2) agentless sentences, or rather sentences where the agent is unspecified due to its being unimportant or unknown.

Transitivity is normally expressed in the presence of a "direct" object. In Mesopotamian *qǝltu* dialects, however, as well as in the Syro-Palestinian area and Maltese, under certain conditions, a pronoun suffixed to the verb form "anticipates" the direct object (and makes it "indirect"); e.g., Baghdadi Jewish Arabic *hezzu lɣaasak* 'shake your head'. A related phenomenon is found in Libyan Arabic: under certain conditions only an object marked by *fii* is allowed – *šaayfa isakkar f il-baab* 'I saw him closing the door'.

Topicality and Cleft Sentences

Certain syntactic members may be marked by movement to positions which are not their usual ones by, e.g., fronting. In addition to movement, other means of topicalization include use of relative clause structures and pronouns; e.g., Arabian *zamiilak huwwa alli kaan hina* 'your colleague, he was the one who was here' or the copula in, e.g., Arabian *haada huwwa alwalad azzaki* 'this is the smart boy'. In all likelihood, the most frequently occurring type of structure is based on a simple or complex fronted member later referred to by a bound pronoun:

> Egyptian *waaḥid ʿandína insaraʾ minnu gamuusa*
> 'One of us, a buffalo was stolen from him';
> Arabian *ʾaṣ-ṣabr, ʾal-ḥayaah tiʿallimuh li-nnaas*
> 'Patience, life teaches it to people';
> *illi ja šifta*
> 'He who came, I saw him';
> Maltese *l-għonja għandhom igħniu l-faqr*
> 'The rich, (they) must help the poor'.

Holophrases and Formulas

Holophrases ("minor sentences") carry full information value (including whole intonation contours) of sentences, though they do not have the conventional SV(O) structure. Ever since CA, many such structures have been used as greetings and expressions of anger, hope, surprise, admiration, etc. Many of these "formulas" express religious awareness by allusions to or by explicit mention of the name of Allah. Syntactically, "formulas" may take the form of phrases, subordinate clauses or whole sentences. Their function in the communicative act is often not related to their literal meanings. Their exact phrasing and meaning often depend on the dialect; e.g.: *ṣbaaḥk* (lit. 'your morning') 'good morning' in Maghrebine and Yemenite dialects, while in Muslim Baghdadi one may salute *aḷḷa bil-xeer* (lit. 'God with goodness') 'may God (bless your day) with goodness'. Eastern dialects have *maa šaa ʾaḷḷa* 'it's God's will' while Maghrebine dialects express this notion by *tsbaark aḷḷa* 'blessed (is) God'. In the Eastern dialects *baarak aḷḷaahu fiik* is used when thanking, whereas in the Maghreb it is used for entreating. Taking refuge in God by Eastern *daxiil ʾaḷḷa* when entreating someone is not common in Egypt or further west; instead *fi ʿarḍ alla* is used. A bedouin invoking God when thanking the host for a meal may say *aḷḷa yxallif* 'may God recompensate' while a non-bedouin would say *aḷḷa yixlif*. In Iraq and Sudan one conjures *ʿaleek aḷḷa* 'by God (do/don't do something)', while in other Eastern dialects one says just *baḷḷa* or *baḷḷa ʿaleek*. *yiftaḥ aḷḷa* is an expression of negation in the Eastern dialects, while it connotes 'please!' in Algerian. In the East *il-barake* 'the blessing' is a prophylactic expression, whereas it means 'enough' in Moroccan.

Major Clause Types

Clause types are (probably) predominantly the same in all Arabic dialects, and

similar to CA structures. Differences among dialects may appear in use of subordinating particles, in relative frequency of certain patterns and in a few innovations.

Relative Clauses

Relative clauses are governed by a subordinating particle if the antecedent noun is definite or by null particle if the antecedent is indefinite, e.g.: Ca. *huwwa raagil yistaha'' ittar'iya* 'he is a man who deserves promotion'; *huwwa-rraagil illi yistaha'' ittar'iya* 'he is the man who deserves promotion'. More than in CA and MSA, relative clauses in the dialects are often governed by the syntactic subordinating particle even when the antecedent noun is indefinite. Thus, e.g., bed. Gal. *yijiik yoom elli tə'uuzo* 'a day will come that you need him'.

Object Clauses

The particle *'an* which introduces complement clauses (subjunctive object clauses) in CA, is practically lost in the Arabic dialects, probably due to the loss of the distinction between the imperfect conjugations of the subjunctive, the jussive and the indicative. Compare, e.g. Arabian *'uxti alkibiira tihubb tizuurna* 'my elder sister likes to visit us'. (Cf. p. 304 for more examples.)

Reflexes of *'inna*, i.e., *'enno, 'inno* 'that, (object particle)' function in the Eastern dialects and reflexes of *aš* 'what' and *illi* 'that which', in the Maghrebine dialects; e.g., *bain, bin, baš, belli*, with *li* in Maltese. Moroccan Muslim dialects tend to use asyndetic clauses when possible, while Jewish dialects there prefer the syndetic patterns. In Moroccan, *baš* is typical of Jewish dialects, while *b(a)in* is Muslim. In all Arabic dialects asyndetic object clauses appear at least (1) when the governing verb is an auxiliary requiring the subjunctive mood; (2) when the object clause is a transformed question, or (3) when it is transformed "indirect speech." The following examples demonstrate some of the wealth involved:

Ca. *simi'*t innĭ *'ali (ha)yiwṣal bukra*
'I hear(d) that 'Ali is arriving tomorrow';
'inta mit'akkid innak muš 'awzu(h)?
'Are you sure you don't want it?';
Ara. *hiyya gaalat inn aljaww baarid*
'She said that the weather is cold (it is cold)';
Mor. Ar. *ma 'raf baš mat*
'he did not know that he (had) died';
qalo li bain ražlek baɣi idžuwuž 'alik
'They told me that your husband wants to marry another woman'.

Circumstantial Clauses

Circumstantial syndetic and asyndetic clauses differ. In the latter, the circumstantial member is an imperfect following the main verb. The syndetic pattern, however, is [*w* + clause] (with the predicate often in the present participle) following

the main clause. Cf. Ara. *annaas xaraju yitfassaḥu* 'the men went out picnicking'; Ca. *ʾabilna ṣaaliḥ f-issikka w-iḥna mrawwaḥiin* 'we met Saalih in the street as we were going home'.

A new structure in many Arabic dialects is the "inverted" circumstantial clause where a syndetic circumstantial clause precedes the main clause. Dam. Ar. *w-ana raaže*, *žtamaʿt bi-ʾabuu nabiil* 'as I was going back, I met Abu Nabil'; bed. (Gal.) Ar. *uhu gaaʿad ʿal-ḥajar, ja ʿalee d-dubb* 'as he was sitting on the stone, the bear came unto him'; Mal. *hu u jitkellem inħanaq f'dqqa* 'while (he was) speaking he suddenly grew hoarse'.

Conditional Clauses

Conditional clauses in MSA and the dialects use the finite verb without necessarily referring to time. But unlike CA, they may freely use the imperative. Asyndetic conditions also exist in the dialects, often in double conditions. Conditional particles include *iza, ila, in,* but many dialects developed particles from *kaan* 'be' in a fossilized perfect or imperfect form, at times combined with another lexical element. Combinations of particles + verb yield real or hypothetical conditions (with particles such as *law*) in the past, present or future. Also non-verbal conditions occur, e.g.:

> Ara. *loo ʿindana fišag, čaan gaanṣiin*
> 'If we had cartridges, (we) would be away hunting';
> Dam. Ar. *ʾen ʿažabek ha-š-šarṭ bteži taani yoom*
> 'If this condition suits you, you will come tomorrow';
> Ca. *ʾiza (ʾin/law) kuntĭ ruḥt imbaariḥ, kunt iddetlak ilfiluus*
> 'If you had gone yesterday, I would have given you the money';
> Mor. *ila čaanu waldiha f-xeer ʿaleehum, tšʿabbi čil-ši*
> 'If her parents were well to do, she would bring everything';
> Mal. *li għidtli li tixtieq tiġi, kont nistiednek*
> 'If you told me that you wished to come, I would have invited you'.

Lexicon

More than phonological, morphological or syntactic differences, it is in the lexicon that some of the major discrepancies among Arabic dialects can most easily be spotted. One can predict a Mauritanian, Moroccan, Algerian or Tunisian background by *atay* or the like for 'tea', whereas elsewhere 'tea' is usually *šaahi, šaay,* or *čaay.* Similarly, Maghrebine dialects use *ḥall* 'he opened', for *fataḥ* occurring in Eastern dialects. Lexicon also marks the sedentary/bedouin dichotomy and other communal dialects. The following tables illustrate some major types of lexical variation among the Eastern and Western dialects.

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Table 14.12 Comparison of glosses in Nigerian, Cairene, Damascene, Iraqi, Meccan, Maltese and Lebanese dialects

Gloss	Nigerian	Cairene	Damascene	Iraqi	Meccan	Maltese	Lebanese
now	hatta/hassadug(g)ut	dilwaʔt(i)	hallaʔ	hassa	daḥḥiin	issa	hallaʔ
good	zeen	kuwayyis	mniiḥ	xooš/zeen	zeen	tajjeb	mliiḥ/mniiḥ
bad	fasil/maknuushawaan	wiḥiš	ʕaaṭel	muuzeenmuu-maaleh		mhux tajjeb	manno mniiḥ
there is	fi	fii	fii	ʔaku	fii	(h)emm	fii
there is not	ma fii/mifi	mafiiš	maa fii	maaku	maafiiš	ma-emm-x	maa fii
how much	kam	kam	ʔaddeeš	čam	kam	kemm	ʔaddeeš/kam
much/many	bil(h)eenkatiir	kitiir	ktiir	hwaayakθiiγ/r	waajid	ḥafna	ktiir
very	bil(h)een	ʔawi	ktiir	kulliš	katiir	ḥafna	ktiir
to do	amal/xadam	ʕamal	ʕəmel/saawa	sawwa/ʕamal	sawwa	hadem/għamel	sawwa/ʕimel
eggs	beeḍ/ð/dahii	beeḍ	beed	beeð	beeḍ	bajdiet	beeḍ
rain	almatara	matar	maṭar	muṭar	maṭara	xita	šita
nothing	ma-še	wala ḥaaga	maa-ši	wala šii	walašay	ma ... xajj	wala šii

Table 14.13 Comparison of glosses in Anatolian, Israeli, Mauritanian, Moroccan, Algerian, Tunisian and Libyan dialects

Gloss	Anatolian	Israeli	Mauritanian	Moroccan	Algerian	Tunisian	Libyan
now	issaaʔ/hassaaʔ baas (Kurd.)	ʔessa/hallaʔhalʔeet	dark	daba	delwoq druuk	tawwa	alaan
good		mniiḥ	zeen	mezyan/waxxa	(a)mliiḥ	baahi	ṭayyeb
bad		ʕaaṭel		ʕaṭel/xayeb			šeen
there is	aku/kooku	fii	xalag	kayn	kan		fiiḥ
there is not	maaku	maa fii(š)	maxalagši	makanš	makaanš	famma	mafiiš
how much	kam	ʔaddeeš/kam	kamm	(a)šḥal	gaddaaš	mafammaš	kam
much/many	keθiir	ktiir		bezzaf		qaddaaš	
very	keθiir/booš	ktiir	hatta	bezzaf	bezzaaf	barša	yaaser
to do	sawwa	saawa/ʕimel	waasa	dar	xdam	ʕmal	sawa
eggs	bayz/bayd	beed	beeẓ	awlad žaaẓ	biid	ʕdaam	dehii
rain	matar	šita	šhaab	naw/nu	shab/naw	štaa	mṭar
nothing	laa šee	wala ʔiši	ši	walu	ši	šay	kaan-l-barka

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Addenda and Corrigenda (with thanks to W. Heinrichs)

p. 265, 1.19: Read Syro-Lebanese for Lebanese. p. 266, 1.20: Read: usually becomes *g*; 1.24: Read: pronouns and the plural verb. p. 275, 1.21: Read: reflex of the *zaa'* and *daad*; ll. 25-6: Read: (... voiced in some older Arabic dialects.); 1.31: Read: even ð̣ . p. 278, rules 1–6: Read [ ] after ➜ (not / /); in rules 5 and 6, read [Λ] in 3rd and [ΛΛ] in 2nd environments. p. 282, 1.1: Read: *ibn* >; 1.19: Read: Forms IV–X. p. 283, 1.15: Read: tends to retain the *n-*. p. 284, 1.6: Read: p. 299. p. 285, ll. 1–2: Read: *s* (no dots); *stufrin* 'yellow'; 1.3 up: Read: + (ᶜ)(*a*)*šar* 'teen'. p. 296, 1.3: Read: *kasar* 'he broke'. p. 298, 1.19 up: Read: e.g. *gaṣṣat* 'she cut' vs. *giṣṣat* 'was cut'. p. 304, 1.14: Read: Moods for Aspects.

15 Modern Hebrew

Ruth A. Berman

The term "Modern Hebrew" is applied to two different time-spans. Both postdate Medieval Hebrew, which followed the ancient Hebrew of the Biblical and Mishnaic periods (see p. 145, Chapter 9), and both refer to a special kind of linguistic revival (Blau 1981). In one sense, Modern Hebrew arose in the late eighteenth century, first in Central and later in Eastern Europe. The main innovators in this development were Jewish writers and intellectuals associated with the *Haskala* (Enlightenment) movement who advocated the use of ancient Hebrew in literary and publicist writings. Their motivation was a renaissance of Jewish culture, for which they favored the ancient language of classical Hebrew over the parochial Yiddish vernacular, and their efforts were critical for the emergence of contemporary Hebrew writing and culture (Harshav 1990). They set the modernist background for the rich literature, both original and in translation, which flourished in Hebrew in the 1900s, and provided the basis for the creation of Hebrew-language schools and a Hebrew-language press.

In another sense, the direct antecedents of Modern Hebrew date to its revival as a spoken language, starting some hundred years later, in the late nineteenth century. This development was motivated by the Zionist movement for national resettlement of Jews in the area which became established as the State of Israel in 1948 (Cooper 1983, Fellman 1973, Morag 1988: 3–127). The motivation for this unique sociolinguistic development was nationalist. Hebrew constituted a focal point of commonality between the different sectors of the Jewish population in Palestine: devout Jews scattered around the Holy Land, pioneers of Zionist immigration (mainly from Eastern Europe) from the late nineteenth century, and large influxes of Jewish refugees from Europe and the Middle East before and after World War II and in the early years of Israeli statehood. Recognized in 1922 as one of the three official languages of the British Mandate in Palestine (with English and Arabic), Hebrew has come to serve all the functions of a language identified with a given politico-geographical entity in modern times.

The present chapter deals with this latter version of "Modern Hebrew," a language which serves some five million Israelis in their everyday spoken intercourse, for official purposes in government, law, and formal education, and as the medium of literature, drama, the press, and other media. As such, Israeli Hebrew is like any other contemporary language with a documented history, since it is the

first and major, if not only, language of its native speakers, and it has both spoken and written versions. But Modern Hebrew has unique underpinnings, due to the fact that Hebrew did not function in this manner for a period of some 1,700 years. From around 200 CE, Hebrew no longer served as the sole or even major means of communication in any speech community. Jews continued to use Hebrew for various purposes, largely liturgical and ritual, but Hebrew was no longer their mother tongue, and it thus had no monolingual speakers. Until the late nineteenth century, Hebrew served in conjunction with local vernaculars (Aramaic and subsequently Arabic in Palestine), or together with the Jewish languages that evolved in the Diaspora, like Judeo-Arabic, Ladino (Judeo-Spanish), and Yiddish (Judeo-German).

   This lack of continuity in the evolution of spoken Hebrew has affected its development in both structural and sociolinguistic terms. Contemporary Hebrew derives from multiple sources of variation. It incorporates concurrent use of linguistic forms deriving from different periods in the history of the language (Bendavid 1967, 1971, Rubinstein, 1980); conservative norms prescribed by the Hebrew language establishment together with rapidly changing colloquial usages (Ravid 1994, Schwarzwald 1981); and the impact of non-Semitic contact languages – originally mainly Yiddish and Slavic, currently largely Western European (Fisherman 1986, Wexler 1990). Yet Modern Hebrew shows almost no regional variation, since it is the language of a small country, characterized by a centralized system of government, education, and broadcasting media, and multiple points of contact between different sectors of the population.

   Israeli Hebrew usage ranges from the normativist requirements stipulated by such institutions as the Hebrew Language Academy (established by law in 1954, based on the prestate Language Committee) to substandard, nonliterate varieties. Between these two extremes lie "standard" forms of usage, the language of educated, native-born Israelis who are literate but nonspecialist speakers and writers (Berman 1987a). This is the variety described in the present chapter. Forms which are labeled as "non-normative" may be so widespread that they have become part of a new standard, and they are noted here as such. Forms termed here "substandard" characterize the usage of less literate speakers: immigrants for whom Hebrew is a second or foreign language, native-born Israelis with a lower level of education, and preschool children from standard-speaking backgrounds. In pronunciation, the variety of Modern Hebrew described here is similar to what Blanc (1964) described as "General Israeli," with occasional mention of an "Arabicized Israeli" pronunciation used by people of Near Eastern background.

Phonology

The phonemic inventory of General Israeli Hebrew reflects the mixed linguistic origins of its speakers at the turn of the century. The consonants are in general similar to those used by Jews of Ashkenazi (Central and Eastern European) extraction, whereas the vowel system was in the main adapted from the Sephardi reading
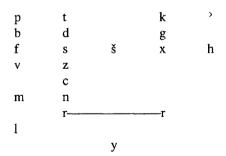
pronunciation of speakers of Arabic/Judezmo background. As a result, many distinctions attested to in earlier periods and in other ethnic traditions, such as the Yemenite, are neutralized in mainstream Israeli Hebrew.

Vowels

The five vowels are close to cardinal vowels in pronunciation: *i, e, a, o, u.* There is no phonetic contrast between long and short (or tense versus lax) vowels in Modern Hebrew, although in some environments speakers may distinguish between two versions of *e*, the usual short *e* represented by the diacritic "segol" compared with the offglided *ey* represented by "tsere" (e.g., the free form of the singular noun *more* 'teacher' versus the bound form of the plural *morey* 'teachers-of'). The historical schwa *mobile* usually results from phonological rules of elision (e.g., before a stressed suffix) or insertion (e.g., between two homotopic word-initial consonants), and is pronounced like the front vowel *e*, sometimes even raised to *i* by younger speakers. There are three diphthongs, *uy, oy, ay,* created by a nonfront vowel followed by a front offglide, only in word-final position, e.g. *kanuy* 'bought', *goy* 'gentile', *elay* 'to-me'.

Consonants

The consonantal inventory of 'General Israeli' is shown below. The *r* phoneme is pronounced in two ways: a normative front rolled *r* is used in the theater, broadcasting, and in some varieties of Arabicized Hebrew, while the uvular version is typical of standard Israeli speech.

p	t		k	ʾ
b	d		g	
f	s	š	x	h
v	z			
	c			
m	n			
	r———————r			
l				
	y			

As shown, the major dialect of Modern Hebrew does not include two typically Semitic sets of elements: the historical pharyngeals, *ḥ* and *ʿ* have been neutralized to velar *x* and to glottal stop or zero respectively, and they are pronounced distinctly only in Arabicized Hebrew; and the historical emphatics, *q, ṭ, ṣ,* are pronounced as *k, t, c* respectively. The consonants listed also reflect several asymmetries. Only three of the six stop consonants, *p, b, k,* have fricative counterparts today, while the voiceless fricatives *š, x* and the voiceless affricate *c* lack voiced counterparts. The class of affricates has been extended to accommodate loanwords, including *č* as in Arabic *čizbat* 'tale', Italian *ciao*, English *chips*; and *ǧ* as in Yiddish *nidžes* or English (plus Russian) *jobnik*.

The orthography of Modern Hebrew uses the same twenty-two consonant letters as Biblical Hebrew (from the Phoenician alphabet). Vowels are indicated only in special contexts such as the Bible, poetry, and learners' texts, by means of the diacritic marks established in the Tiberian system around the ninth century. In contrast, the phonemic system of Modern Hebrew involves numerous levelings of historical distinctions. For example, historical *ʾ*, *ʿ*, *h* are often not pronounced, except in Arabicized Hebrew. They are never realized in word-final position, *ʾ* and *ʿ* are rare in word-initial position, where *h* occurs only in careful speech, and all three are pronounced as a glottal stop, if at all, in word-medial position. The same sound [v] is used for both the spirantized version of *b* and the historical glide *w*; [x] is used for both the spirantized version of the velar stop *k* and the historical pharyngeal *ḥ*; and [k] for both the velar stop *k* and the historical emphatic *q*.

This reduction of historical alternations has led to considerable morphophonological opacity and variability in environments that are phonetically unmotivated (Berman 1985, Ravid 1994, Schwarzwald 1981). For example, the same surface form [arim] represents orthographic *ʾrym* 'I will pick up'; *hrym* = *har* 'mountain' in the plural; and also *ʿrym* = *ir* 'city' in the plural. And the single surface phonetic string [kara] is a past tense 3rd person masculine verb form which stands for five different lexemes *qrh* = 'happened', *qrʾ* = 'read', *qrʿ* = 'tore', *kry* = 'mined', and *krʿ* = 'knelt'. But the historical alternations neutralized in the past tense verb *kara* are manifested in other words derived from the same roots; compare, for example, the infinitives *li-kro* 'to-read', *li-króa* 'to-tear', *li-xróa* 'to-kneel', and the nouns *mikre* 'happening', *mikra* 'scripture', *mixre* 'a mine'.

Morphophonology
Three issues deriving from such neutralizations of historically distinct segments and processes are noted here: vowel lowering, vowel reduction, and spirantization. In the first case, the environments which require vowels to be lowered to *a* are often opaque, and speakers tend to extend the process to noncanonic contexts. For example, the infinitive forms of *ʾ*-initial verbs in the *qal* verb pattern are rendered as *laʾaroz* 'to-pack', *laʾatom* 'to-seal' for normative *leʾeroz*, *leʾetom* (cf. *ʿ*-initial *laʿazov* 'to-leave'), and the feminine of *x*-final verbs yield *somáxat* 'to rely', *oráxat-din* 'woman-lawyer' for normative *soméxet*, *oréxet* (cf. *ḥ*-final *lokáxat* 'takes'). Such processes are widespread, but do not apply across the board, since some words, for reasons of transparency or high frequency, retain their historically normative forms (e.g., *leʾexol* 'to-eat' with initial *ʾ*, *holexet* 'goes' with stem-final *x*).

Second, stem-penultimate nonhigh vowels are reduced in nouns and adjectives before stressed suffixes, only in syllables which were historically open, e.g., *gadol* 'big'/feminine *gdola*, *nicaxon* 'victory'/plural *nicxonot*, *matos* 'airplane'/plural *mtosim*. This is blocked by historical medial geminates, e.g., *gamad* and *gamadim* 'dwarf/s', *ganav* and *ganavim* 'thief/ves'. In such cases, speakers have no phonological basis for deciding when to apply vowel reduction (Berman 1985: 260–263). In word-initial position, in contrast, vowel reduction varies between a

schwa-like vowel or zero on phonetic grounds: with two initial consonants which are homotopic or homorganic, a schwa-like element is retained, as normatively required, but when the two consonants are phonetically dissimilar, they are pronounced as a cluster. (Compare *metixa* 'stretching', *betixut* 'safety', where a schwa-like element blocks consonant clustering, with *šmira* 'guarding', *kriʾut* 'readability'.) Modern Hebrew thus differs from its historical antecedents in allowing initial consonant clusters. Final clusters, in contrast, are still prohibited, except with the 2nd person feminine suffix *-t* on verbs, e.g. *šamart* 'guarded 2f.', *mataxt* 'stretched 2f.'. Elsewhere, they occur only in foreign loanwords, and are constrained by phonetic dissimilarity (e.g., *test* versus *fílim* 'film').

The third issue, spirantization or lenition, has received considerable attention in studies of Modern Hebrew. Current Hebrew has three stop-spirant alternations: *p ~ f, b ~ v, k ~ x*. The rules governing these alternations are generally opaque today, for the reasons noted earlier. For instance, intervocalic spirantization was historically blocked by geminate medial consonants, as in the verb *saval* 'suffered' versus the noun *sabal* 'porter', or the verb *safar* 'counted' versus *siper* 'told'. These distinctions are not phonetically motivated today. Hence speakers who use the normative form *li-šbor* 'to break', *nišbar* 'got-broken', with a medial stop *b* in syllable-initial position, may produce either normative *šavur* or substandard *šabur* for 'broken', *šavár-ti* or non-normative *šabár-ti* for 'broke sg. 1 = I broke'. In the opposite direction, speakers may spirantize when not required, yielding substandard forms like *xibásti* 'washed-sg. 1' (cf. *le-xabes* 'to-wash'), *xase oti* 'cover me' (cf. *le-xasot* 'to-cover') in place of required *kibásti, kase oti*. Overextension of spirantization also occurs in infinitives of verbs in the *qal* pattern, e.g., forms like *li-tfor* 'to sew', *li-gvor* 'to increase' commonly replace required *li-tpor, li-gbor* (cf. *li-šbor* 'to break'). Here the reason is the phonetic pull to dissimilation, where a root-initial stop tends to elicit a following spirant, counteracting the classical blocking of syllable-initial spirants.

Stress

Word-stress follows the Sephardi reading tradition and is typically on the final syllable (called *milraʿ*). Exceptions to this generalization are indicated throughout this chapter by an acute accent on the vowel of a nonfinal stressed syllable. As in classical usage, penultimate stress applies to the "segolate" class of derivative nouns, e.g. Biblical *mélex* 'king', Modern *méser* 'message', Mishnaic *nóhag* 'custom', Modern *nóhal* 'procedure' and to unstressed past tense suffixes, which leave main stress on the stem-final syllable (e.g., *tafár-ti* 'sewed sg. 1', *tafár-ta* 'sewed sg. 2'), which has been extended to the 2nd person plural suffix *-tem* to yield *tafártem* in place of normative *tfar-tém*, and so regularized the past tense paradigm. In contemporary casual usage, Ashkenazi-type penultimate stress is used in proper names and in children's games. Compare, for example, the plural noun *rexovót* 'streets' with the name of the city *rexóvot* (Rehoboth), the action-nominal *širá* 'singing' with the girl's name *šíra* (Shira), or the plural noun *klafím* 'cards' with the name of the children's game of *kláfim*; and the ordinals *rišon* 'first', *šeni* 'sec-

ond', *šliši* 'third', etc. also get penultimate stress in children's counting out. Final-ly, loanwords often have nonfinal stress, e.g. *profésor*, *modérni*, or antepenultimate in words like *univérsita, akadémiya*.

Morphology

Modern Hebrew has retained much of the inflectional morphology of its classical antecedents (see p. 318). In new-word formation, too (p. 320), all verbs and many nouns and adjectives are formed by the classically Semitic devices of consonantal roots plus associated affixal patterns. However, the system of grammatical forma-tives described below includes many levelings of earlier distinctions, as well as extensions to more analytical forms of expression.

Pronouns

Personal pronouns are marked for person, number, and gender. In the nominative, they occur as free forms, and elsewhere are suffixed to case marking or adverbial prepositionals. These suffixes take either a singular or plural form when attached to a bound prepositional stem, as shown in Table 15.1. The pronouns suffixed to *šel* 'of' are those used for singular nouns in Biblical and in Modern Hebrew, those used with *al* 'on' occur with plural nouns.

Table 15.1   Personal pronouns

| | Nominative | | Genitive *šel* 'of' | | Locative *al* 'on' | |
	Singular	Plural	Singular	Plural	Singular	Plural
1	ani	anáxnu ~ ánu	šel-i	šel-ánu	al-ay	al-énu
2m.	ata	atem	šel-xa	šel-axem	al-éxa	al-eyxem
f.	at	aten	šel-ax	šel-axen	al-áyix	al-eyxen
3m.	hu	hem	šel-o	šel-ahem	al-av	al-ehem
f.	hi	hen	šel-a	šel-ahen	al- éha	al-ehen

The basic prefixal prepositions typically take singular pronominal suffixes, e.g., dative *li, lexa, lax* 'to me, to you (m.), to you (f.)', and locative or instrumental *bi, bexa, bax* 'in/with me, you'. Several prepositions have suppletive stems before a pronominal suffix, e.g., accusative *et* takes forms like *oti, otxa, otax* 'me, you (m.), you (f.)', comitative *im* changes to bound *iti, itxa, ito* 'with me, with you'. There are also paradigm-internal alternations; for example, the comparative preposition, *kmo* 'like' has the bound forms *kamóni* 'like me', *kamóxa* 'like you', and ablative *mi(n)* 'from' alternates between *miméni, mimxa, mimex, mimeno, mimena* with singular pronouns and *miménu* (or *meʾitánu*), *mikem, miken, me-hem, mehen* in the plural. Paradigm regularization is common in colloquial usage, e.g., *eclehem* for *eclam* 'at them' (cf. *lahem* 'to them'), *bišvilax, otex* for *bišvilex, otax* 'for you, f.', 'you, acc. f.'.

Inflectional Morphology

Verbs alternate across five categories of tense and mood, as shown below for masculine singular forms in three conjugations.

		Nonfinites			Tensed	
Root	Gloss	Infinitive	Imperative	Participial	Past	Future
g-m-r	'finish'	*li-gmor*	*gmor*	*gomer*	*gamar*	*yi-gmor*
s-p-r	'tell'	*le-saper*	*saper*	*me-saper*	*siper*	*ye-saper*
p-s-q	'stop'	*le-hafsik*	*hafsek*	*ma-fsik*	*hifsik*	*ya-fsik*

Infinitives take prefixal *l-* 'to' and are otherwise uninflected in Modern Hebrew. Imperatives are listed here in their normative form, but these are rare in casual usage. Juvenile and intimate peremptory style uses infinitives for imperative injunctions; future tense forms serve for requests in causal style (as is normative in the negative, e.g., *al tafsik* 'not 2nd-will-stop = don't stop!'), and a new imperative form has evolved out of the future stem minus the 2nd person prefix (Berman 1985, Bolozky 1979). Participials (traditionally termed *benoni* 'intermediate') also serve for present tense reference, contrasting with past and future tense (Gordon 1982). Future forms function both as colloquial imperative and for other modalities such as jussives and optatives.

Table 15.2 Verb inflections

		Imperative	Participial	Past	Future
Sg.	1			sipár-ti	a-saper
	2m.	saper		sipár-ta	te-saper
	f.	sapr-i		sipár-t	te-sapr-i
	3m.		me-saper	siper	ye-saper
	f.		me-sapér-et	sipr-a	te-saper
	1			sipár-nu	ne-saper
	2m.	sapr-u		sipar-tem	te-sapr-u
	f.	saper-na		sipar-ten	te-saper-na
	3m.		me-sapr-im	sipr-u	ye-sapr-u
	f.		me-sapr-ot	sipr-u	te-saper-na

Except for infinitives, verbs take agreement suffixes (see p. 326) for plural number and feminine gender, and past and future tense verbs are also marked for person. These inflections are illustrated in Table 15.2 for the verb *saper* 'tell (a story)'.

Masculine gender is the basis for neutralizations, particularly in the plural, as in Modern Hebrew leveling to masculine plural forms of 2nd and 3rd person in future tense. The participial, present tense forms differ from the past and future tense in not being marked for person, with a single form used with 1st, 2nd, and 3rd person pronouns. Past and future tense forms observe the classical asymmetry of suffixal versus prefixal person markings.

Nouns have natural, sex-linked gender if animate, with a feminine suffix in the

form of stressed *-a*, *-it*, or unstressed *-et*, e.g., *iš* 'man' ~ *iša* 'woman', *saxkan* 'actor' ~ *saxkanit* 'actress', *tarnegol* 'cock' ~ *tarnególet* 'hen'. Inanimate nouns are either masculine or feminine. Grammatically feminine nouns are generally marked as such by their endings, e.g., masculine *aron* 'closet'/feminine *mita* 'bed', masculine *mazleg* 'fork'/feminine *kapit* 'teaspoon', masculine *séfer* 'book'/feminine *maxbéret* 'notebook'; but there are exceptions, e.g., feminine *kos* 'glass', *eš* 'fire'. Noun plurals depend on the singular gender, *-im* for masculine, *-ot* for feminine, e.g., *sal-im* 'bags', *amud-im* 'pillars', but *mit-ot* 'beds' from singular *mita*, *tmun-ot* 'pictures' from singular *tmuna*. Lexical exceptions exist in both directions, e.g., masculine *šulxan* 'table', *av* 'father' take the feminine plural *-ot*, while feminine *mila* 'word', *šana* 'year' form their plural with *-im*. The dual suffix *-áyim* is lexically restricted; used mainly for body parts and clothing, e.g. *sfatáyim* 'lips' versus *safot* 'languages, edges', it may be extended, for instance to time-periods, as in *švuʾáyim* 'two weeks', *šnatayim* 'two years' (cf. *šavuʾot* 'weeks', *šanim* 'years'). Complex phonological and morphological processes condition the bound form of different classes of noun stems before a stressed suffix. These include vowel reduction e.g., *gamal* ~ *gmalim* 'camel-s', *nicaxon* ~ *nixconot* 'victory/ies' and other contractions, e.g., *áyin* ~ *enáyim* 'eye-s', *báyit* ~ *batim* 'house-s', *láyla* ~ *lelot* 'night-s', and numerous morphologically conditioned alternations, e.g. *dégel* ~ *dgalim* 'flag-s', *šixva* ~ *šxavot* 'layer-s'.

Nouns also have a bound form in the construct state before a possessive suffix or as the head noun of bound construct state genitive. In everyday speech, the suffixed possessives are typically replaced by a more analytical form with the genitive particle *šel*, thus *ha-sal šel-i* 'the-basket of-me' for 'my basket', *ha-mita šel-axem* 'the-bed of-you' for 'your bed'. The bound pronominal suffixes are restricted to formal high style and to a few lexically frozen expressions, e.g. *tor-i* 'turn-my' = 'my turn' (in games), *ma šlom-xa?* 'what peace-your' = 'how are you?'. Nonlexicalized construct state genitives are common in formal usage (see p. 330), but also tend to be replaced by more analytical forms with *šel* 'of' in spoken Hebrew.

Free nouns and construct state bound head nouns have a distinct inflectional form in the masculine plural, the free suffix *-im* versus bound (Aramaic) *-ey*, e.g., *salim* 'baskets'/*sal-ey kaš* 'baskets-straw' = 'straw baskets', *mtosim* 'planes'/ *mtosey krav* 'war planes'. Examples of a single bound stem form in different morpho-syntactic environments are shown below.

Free form	Gloss	Plural	Possessive suffix		Construct state N + N	
davar	'word'	*dvar-im*	*dvar-a*	'her word'	*dvar haʾel*	'God's word'
láyla	'night'	*lel-ot*	*lel-i*	'my night'	*lel xóref*	'winter night'
xéder	'room'	*xadar-im*	*xadr-o*	'his room'	*xadar óxel*	'dining room'
tmuna	'picture'	*tmun-ot*	*tmunat-i*	'my picture'	*tmunat šáʿar*	'cover picture'

Adjectives pattern morphologically like nouns in most respects, and they agree with their head nouns in number, gender, and definiteness, e.g. *ha-xéder ha-gadol* 'the-room the-big = the big room', feminine *ha-tmuna ha-gdola* 'the big picture'.

Adjectives can also have bound, construct state forms, but these are rare in spoken usage, except where they have become lexicalized in set expressions, e.g., *kcar-re'iya* 'short-of sight = short-sighted'.

Derivational Morphology

Modern Hebrew relies largely on the classical Semitic means for constructing new words, from consonantal roots plus associated affixal patterns: *binyanim* 'conjugations' for verbs and *miškalim* 'weights' for nouns and adjectives. This process has also been extended in several ways to allow for rapid and effective vocabulary expansion.

New-verb Formation: Roots and Conjugations (Binyanim)

All verbs are constructed in one of the seven *binyan* conjugation patterns, labeled here as P1 *qal* or *pa'al*, P2 *nif'al*, P3 *pi'el*, P3$_{ps}$ *pu'al*, P4 *hitpa'el*, P5 *hif'il*, P5$_{ps}$ *hof'al*. (Verbs are cited here in the morphologically simple 3rd person masculine past tense form.)

   P1 = *qal, pa'al*: This is the most basic pattern, with the highest frequency of distribution for both type and tokens at all levels of usage. Morphologically, it is highly variable, since it lacks a single unequivocal stem form, and it disallows roots of more than three elements. Lexically, it is the least productive pattern, with almost no new verbs formed from denominal or loan sources (e.g., *taxam* 'delimit' from *txum* 'range'). Syntactically, it is the only pattern which is equally open to both intransitive and transitive agentive activity verbs (e.g., *halax* 'walk', *yašan* 'sleep', *caxak* 'laugh') compared with *daxaf* 'push', *tafas* 'catch', *šavar* 'break'), and also to stative verbs (e.g., *ra'a* 'see', *xašav* 'think', *ahav* 'love'). Transitive verbs in this pattern have passive or change-of-state equivalents in P2 *nif'al*, e.g., P1 *lakax* 'take' ~ P2 *nilkax* 'be-taken', P1 *ganav* 'steal' ~ P2 *nignav* 'be-stolen' and P1 *šavar*, trans. ~ P2 *nišbar*, intr. 'break' , P1 *šafax* ~ P2 *nišpax* 'spill'. Occasional alternations between activity verbs in P1 and the P3 *pi'el* pattern are idiosyncratically related (e.g., P1 *patax* 'open' ~ P3 *pitéax* 'develop').

   P2 = *nif'al*: Verbs in this pattern are marked by the prefixal *ni-* in present and past tense. They are typically intransitive, since they cannot govern direct objects with the accusative marker *et*. This pattern serves mainly as a change-of-state or passive reflex of transitive verbs in P1. It also contains a large, though closed class of verbs which have transitive causative alternants in P5, e.g., P2 *ne'elam* 'disappear' ~ P5 *he'elim* 'make disappear, hide', P2 *nivhal* 'be startled' ~ P5 *hivhil* 'startle, frighten'.

   P3 = *pi'el*: This pattern (traditionally termed "strong" or "heavy" because of the historical gemination of the medial root consonant) includes mainly transitive activity verbs, and a few intransitives, e.g., *xiyex* 'smile', *tiyel* 'take a walk'. Its most productive function in Modern Hebrew is for new-verb formation, either from native nouns (e.g., *kixev* 'star' from the noun *koxav* '(a) star', *'irpel* 'befog' from *arafel* 'fog') or from loanwords (e.g., *siben* from *sabon* 'soap', *tirped* 'torpedo'). In addition, affixal consonants of established nouns are incorporated in

this pattern to derive new root elements by a process of "secondary root forma-tion," e.g., *mikem* 'locate' from *makom* 'place' derived from the historical root *q-w-m*, *tifked* 'function' from the noun *tafkid* based on the root *p-q-d*. For exam-ple, the historical root *x-š-b* 'think' has been extended to create two new sets of formatives, with prefix *m-* to form *m-x-š-v* from the noun *maxšev* 'computer', as in *mixšev* 'computerize', and a suffix *-n* from *xešbon* 'arithmetic' underlying *x-š-b-n* as in *xišben* 'calculate'. In morphophonological terms, the *pi̇ʿel* pattern (like the other two strong patterns, *puʿal* and *hitpaʿel*) is particularly accessible to roots with more than the classical three consonants, and can thus accommodate the large number of verbs coined in Modern Hebrew with quadriliteral roots (Yan-nai 1974). These include extension of prefixal elements such as the Aramaic-based *šafʿel* (e.g., *šixzer* 'reconstruct', *šixtev* 'rewrite'), Mishnaic *ʾafʿel* (e.g., *ʾišpez* 'hospitalize', *ʾivṯéax* 'secure', and contemporary *tafʿel* (e.g., *tidlek* 'refuel', *tiskel* 'frustrate').

P3$_{ps}$ = *puʿal* functions as the syntactically, lexically, and morphologically pro-ductive passive counterpart of transitive P3 *pi̇ʿel* verbs, e.g. *sudar* 'be-arranged', *šuxtav* 'be-rewritten'. As such, it forms part of inflectional rather than derivational morphology in Modern Hebrew.

P4 = *hitpaʿel* is multifunctional in Modern Hebrew. It never governs the accu-sative marker *et*, and so takes no direct objects, nor does it have a passive coun-terpart. It contains the few lexical reflexives, e.g. *hitraxec* 'wash oneself' and reciprocals, e.g. *hitkatvu* 'correspond (with one another)'. More productively, it is the favored means of expressing inchoativity, based on verbs or adjectives, e.g. *hitragez* 'get angry', *hitʿayef* 'get-tired', *hizdaken* 'grow-old'. Primarily, P4 con-stitutes the intransitive, change-of-state reflex of P3 activity verbs, e.g. *histader* 'settle down', *hitpazer* 'scatter', and so it is also commonly used in denominals, e.g. *histaben* 'soap oneself', *hitʾaqlem* 'become acclimatized'. Verbs like *hizdaken, histader, histaben* show that the classical process of metathesis and voicing assimilation of the prefixal *-t* before a root-initial sibilant in this verb pat-tern has been maintained in Modern Hebrew.

P5 = *hifʿil* contains mainly transitive verbs in Modern Hebrew, except for its classical use as both the causative and inchoative form of a restricted set of adjec-tives (e.g. *heʾedim* 'redden' = 'make-red' and 'become red', *hivšil* 'ripen' = 'make ripe' and 'become ripe'). P5 is used far less for denomination than in Biblical He-brew, and in such cases, it is often phonologically conditioned, e.g. *hišpric* 'spray' from the loan noun *špric* (although see, too, neologisms like *hilxin* 'put to music' from *láxan* 'tune', *hiklid* 'enter (on keyboard)' from *kalid* 'key'). The most pro-ductive contemporary function of P5 *hifʿil* is as the causative counterpart of (mainly intransitive) activity verbs in P1, e.g. P1 *rac* versus P5 *heric* 'run ~ make-run', P1 *caxak* 'laugh' versus P5 *hicxik* 'make-laugh = amuse', and of adjectives, e.g. *gamiš* 'flexible' yields P5 *higmiš* 'make flexible', *kiconi* 'extreme' yields P5 *hikcin* 'extremize'.

P5$_{ps}$ = *hofʿal* is the passive alternant of P5 *hifʿil* to which it relates much as the other strictly passive binyan pattern P3$_{ps}$ *puʿal* to transitive verbs in *pi̇ʿel*, e.g.

hurac 'be (made to)-run', *hugmaš* 'be-made-flexible = elasticized', *hulxan* 'be-put-to-music'.

Passive Participles

The three *binyan* patterns which contain strictly transitive verbs, i.e. verbs which take accusative marked direct objects, have regular passive participial counterparts, as follows. Verbs in P1 *qal* take the form *CaCuC*, e.g. *sagur* 'closed', *šavur* 'broken', *katuv* 'written'; P3 *piˤel* transitives take the form *mefuˤal*, e.g. *mesudar* 'arranged, tidy', *mefuzar* 'scattered, disorderly', *mešuxtav* 'rewritten'; those in P5 *hofˤal* take the form *mufˤal*, e.g. *mušprac* 'sprinkled', *mustar* 'hidden', *munxe* 'directed' (Berman 1994). These alternations reflect the dual nature of the *qal* pattern in Modern Hebrew, as shown below.

Active transitive	Passive	Perfective Participle
P1 *qal*	P2	*nifˤal* ~ *CaCuC*
P3 *piˤel*	P3$_{ps}$	*puˤal* = *meCuCaC*
P5 *hifˤil*	P5$_{ps}$	*hofˤal* = *muCCaC*

The *u* vowel is a distinctive marker of these passive participles, which have an end state, resultative meaning (e.g., *neʾum katuv* 'speech written = a written speech', feminine *safa medubéret* 'spoken language'). They also create new adjectives from verbs, e.g. *yadúa* 'known = familiar', *mefursam* 'publicized = famous', *mufšat* 'undressed = abstract' and also from nouns, e.g., *meʾuban* 'fossilized' from *éven* 'stone', *menumas* 'polite' from *nimus(in)* 'manners'.

Noun and Adjective Formation: Conversion, Affixation, and Juxtaposition

Conversion from one lexical category to another is another common device for new-noun derivation in Modern Hebrew, under the following constraints. It is based only on the participial ("present tense") form of verbs, active or passive, and it forms only two semantic classes, agent and instrument nouns, e.g., P1 *porec* 'burglar', P2 *neʾeman* 'trustee', P3 *menahel* 'director', P4 *mitʾagref* 'wrestler', P5 *madrix* 'guide'; and P1 *mone* 'meter', P2 *nispax* 'appendix', P3 *meʾavrer* 'ventilator'.

Affixation of classical patterns to consonantal roots remains the favored means of new-noun formation in Modern Hebrew. Internal-vowel patterns are used for new agent nouns, e.g. *CaCaC* in words like *tayas* 'pilot', *sapak* 'supplier', *pasal* 'sculptor'; for possibility adjectives in *CaCiC*, e.g., *kavis* 'washable', *kavil* 'acceptable', *axil* 'edible'; and the *CéCeC* segolate pattern serves for numerous noun coinages, e.g., *méser* 'message', *pélet* 'output', *šéder* 'broadcast'. Classical patterns with prefixal and/or suffixal elements are also widely used in expanding the noun stock of Modern Hebrew, e.g. *maCCeC* for instrument nouns such as *maxšev* 'computer', *macber* 'battery'; *CaCéCet* for diseases, e.g., *šaˤélet* 'whooping cough', *kalévet* 'rabies' or for collectives, e.g. *canéret* 'pipeworks'; *miCCaCa* for place or collective nouns such as *minhala* 'administration', *mifkada* 'head-

quarters'; or *tiCCóCet* for abstract nouns such as *tixtóvet* 'correspondence', *tismónet* 'syndrome'.

Modern Hebrew also relies heavily on external affixation to the bound stem form of words. For example, the Mishnaic attributive pattern CaCCan is widely used in modern agent nouns like *karyan* 'broadcaster', *saxyan* 'swimmer', as is the suffix *-an* attached to established nouns in new words like *mišpetan* 'jurist', *psantran* 'pianist', *harpatkan* 'adventurer'. The abstract suffix *-ut* derives abstract nouns by agglutination to existing nouns e.g. *yaldutiyut* 'childishness' or to passive participles, e.g. *meʿuravut* 'involvedness = involvement'. Suffixal *-i* is a major device for denominal adjective formation, e.g. *beʿayati* 'problematic', *taʿasiyati* 'industrial'. A device not attested to in earlier phases of the language are innovative prefixes used to form complex adjectives, e.g., *ben-leʾumi* 'international', *xad-cdadi* 'uni-lateral', *du-mašmaʿi* 'ambiguous', *kdam-akadémi* 'pre-academic'.

Blended words are derived by merging two bound stems or parts of words, e.g. P1 *li-rmoz* 'to signal' plus the noun *or* 'light' yields *ramzor* 'traffic light', *xamiša* 'five' plus *šir* 'song, poem' yield *xamšir* 'limerick'; *midraxa* 'sidewalk' plus *rexov* 'street' yield *midraxov* 'pedestrian mall' (Berman 1989). Lexicalized compound nouns are derived from a bound head noun followed by a free form of a second, adjunct, noun, e.g., *yošev-roš* 'sitter-head = chairman', *orex-din* 'conductor-law = lawyer'; *tapúax-adama* 'apple-earth = potato'.

Methods for new-adjective formation include use of classical *miškal* patterns such as CaCiC; semantic extension of active participial patterns, e.g. *benoni* forms such as P1 *bolet* 'stands out = conspicuous', P3 *meʿacben* 'annoys = maddening', P5 *macxik* 'amusing = funny'; extension of passive participial form CaCuC, *meCuCaC*, and *muCCaC*; and suffixal *-i* as a productive means for incorporating denominal and loan adjectives, e.g. *xinuxi* 'educational', *cimxoni* 'vegetarian', *modérni, akadémi*.

Modern Hebrew has thus been able to expand its vocabulary effectively to meet the needs of casual everyday intercourse, of science and technology, of journalism and *belles lettres*, while retaining much of the flavor of its ancient Semitic origins.

Syntax
The syntax of Modern Hebrew contains constructions which have been taken over from the two major historical periods in the history of spoken Hebrew, Biblical and Mishnaic, while also showing the impact of different contact languages to which its speakers have been exposed over the past hundred years.

Word Order
Modern Hebrew is predominantly SVO in basic word order: with pronominal and lexical subjects, with copular and main verb predicates, and in main as well as subordinate clauses. Like classical Hebrew, however, Modern Hebrew manifests the syntactic properties associated with verb-initial languages, as follows. It is prepo-

sitional rather than postpositional in marking case and adverbial relations; auxiliary verbs precede main verbs; main verbs precede their complements, nominal or sentential; noun modifiers – adjectives, determiners, and noun adjuncts – follow the head noun; hence, too, in genitive constructions the possessee noun precedes the possessor.

Moreover, Modern Hebrew allows, and in some cases requires, sentences which are predicate initial. In possessive and existential constructions (see p. 329), the copula verb *haya* 'be' or the existential particle *yeš* are typically sentence initial. VS order is common though not mandatory with certain other kinds of predicates, particularly those which refer to existence or coming into being and are syntactically unaccusative, e.g. *parca šam srefa* 'broke-out (a) fire there', *hofia dmut baʾófek* '(there) appeared (a) figure on-the-horizon'. Moreover, verbs with person-marking affixes in past and future tense do not need a separate subject pronoun in noncontrastive contexts, so that the verb is again sentence initial (see further p. 326).

Various kinds of impersonal constructions are also typically subjectless. These include

1   the canonic "strictly subjectless" impersonals with 3rd person plural verbs without any pronoun, e.g., *šotim hamon mic ba-káyic* 'drink + pl. lots juice in-the-summer = people drink a lot of juice in summertime', *yodíu et hato-caʾot bekarov* 'will-announce + Pl. ACC. the-results soon = the results will be announced shortly';

2   "circumstantial predicates" relating to time and weather, e.g. *meʾuxar axšav* '(it's) late now', *yihye lexa xam šam* 'will-be to-you hot there = you'll be hot there';

3   impersonal passives with sentential complements, e.g. *neʾemar šehu hevi ota* '(it) was-said that he brought her', *huxlat še ha'inyan yetupal* '(it) was-decided that the matter would-be-treated';

4   modal and other evaluative predicates with sentential complements, e.g. *kday laʿazor lo* 'worthwhile to-help him = he should be helped', *xaval še hu lo ba* '(it's a) pity that he did not come', *haya xašuv še-dibárnu ito* '(it) was important that we-talked to-him'.

A major change in colloquial Hebrew is the introduction of an expletive subject, the impersonal pronoun *ze* 'it, this, that', not in the context of (1) and (2) above, but optional with sentential complements of type (4), e.g., *ze lo yafe ledaber kax* 'it (is) not nice to-talk that way', *ze haya xašuv še azárnu lo* 'it was important that we helped him'.

Major constituent order in current Hebrew is thus variable, since the basic SVO order of tensed clauses alternates with a range of VS and subjectless constructions. In addition, various fronting operations allow change of focus or topicalization of a nonsubject element. These more marked orders include left dislocation, in which a topicalized element is fronted, leaving a pronominal copy in its original position,

as in (b) below. Spoken usage also allows right dislocation, with case marking retained on both the dislocated nominal and the pronominal trace, as in (c), with nominals case-marked for the accusative, free *et* or bound *otam* 'them'.

(a)   Unmarked SVO: *ani makir tov me'od et   haKohenim*
                           I   know very well ACC.   the Cohens

(b)   Left-dislocation: *haKohenim,   ani   makir   otam tov me'od*
                           the Cohens,   I   know   them very well

(c)   Right-dislocation: *ani makir otam tov me'od, et   haKohenim*
                           I   know   them very well, ACC.   the Cohens

Along with the classical topicalization of (b) and colloquial right dislocation as in (c), Modern Hebrew also allows simple fronting of nonsubject constituents, as shown below.

(a)   Direct object: *et   haKohenim   ani   makir   tov me'od*
                       ACC.   the Cohens   I   know   very well

(b)   Oblique object: *im   haKohenim   anaxnu nifgašim   harbe*
                       with the Cohens   we   meet (up)   a lot

(c)   Locative: *el   haKohenim   anaxnu nos'im kol šavua*
                 to   the Cohens   we   drive   every week

Internal SV order tends to be retained after such frontings. Where classical inversion to VS occurs in such cases, it is applied to all three tenses, present, past, and future (normatively, the present ~ participial forms, considered nominal, blocked this inversion). The grammar of Modern Hebrew permits a variety of constituent reorderings, but there is a tendency in spoken usage to rely mostly on the unmarked, neutral, or basic SV(O) order.

Determiners
(See Agmon-Fruchtman 1982, Glinert 1989). Definiteness is marked by the morpheme *ha-* prefixed to nouns and their associated adjuncts (see p. 326). Nondefinite noun phrases lack special marking, but colloquial style uses a contracted, unstressed form of the numeral *exad* 'one', feminine *axat*, for nondefinite, specific nouns. Deictic *ze* 'this, that, it' has several functions, and is today commonly used as a pleonastic or expletive pronoun (Berman 1980, 1990). Postnominal demonstratives alternate between Biblical *ha-ze* (m.), *ha-zot* (f.) 'this, that' in spoken usage and Mishnaic *ze, zo* in more formal style, with a suppletive plural *ha-éyle*. There is little use of the contrastive distal paradigm *ha-hu, ha-hi, ha-hem* 'that' (sg. m., pl. m.), and the bound accusative 3rd person forms *oto, ota, otam* meaning 'him, her, them' and also 'the same' are increasingly used as anaphoric demonstratives.

Quantifiers occur before the head noun (see p. 323); they have both bound (construct state) and free forms, e.g., *hu lakax shney sfarim, ve ani gam lakáxti shnáyim* 'he took two books, and I also took two', and both masculine and femi-

nine gender, e.g., masculine *šney sfarim* 'two books', *šloša baxurim* 'three boys', feminine *štey mapot, šaloš banot* 'two cloths, three girls'. This system is highly variable in juvenile and other substandard usage, since the *-a* endings of masculine numerals typically mark feminine gender in other areas of the grammar, and speakers tend to neutralize numbers to the feminine form without the *-a* ending (Ravid 1995).

Grammatical Agreement

Modern Hebrew has a broad array of inflectionally marked categories of agreement. Past and future tense verbs agree with the grammatical subject in number, gender, and person; present tense forms agree with the grammatical subject in number and gender; and adjectives and determiners agree with the head noun in number, gender, and definiteness. Compare:

(a)	*xaruz*	*gadol*	*ze*	*nofel*		
	bead	big	this	fall	= this big bead + m. is falling	
(b)	*kubiya*	*gdola*	*zo*	*nofélet*		
	block	big	this	fall	= this big block + f. is falling	
(c)	*ha-kubiyot*	*ha-gdolot*	*haʾéle*	*noflot*		
	the-blocks	the-big	the-these	fall	= these big blocks + f. are falling	

The system is asymmetrical along several dimensions (see p. 318). Tense marked verbs have person affixes in 1st and 2nd, not in 3rd person. In the absence of a lexical noun subject, surface pronoun subjects are normally mandatory with 3rd person verbs in all tenses, and in all persons in the present tense, but they are optional in 1st and 2nd person in past and future tense. In spoken usage, 1st and 2nd person pronouns are typically omitted in the past tense in non-contrastive or neutral contexts, but they are retained in future tense, except where these forms function as imperative or optative mood rather than future tense. In subordinate clauses and in extended discourse, 3rd person pronouns are often omitted under conditions of topic maintenance (Berman 1990).

Masculine agreement marking tends to be preferred across the board over the normative feminine in plural forms. This is officially sanctioned for 2nd and 3rd person future, and it is increasingly common in other contexts, too. Neutralizations are usually in the unmarked masculine form except for the numeral system, where there is widespread, as yet substandard, preference for feminine forms, since these lack the *-a* suffix which elsewhere marks feminine gender (Ravid 1995). Agreement also tends to vary between normative and casual usage in VS constructions and in definiteness marking on construct-state nominals (see p. 330).

Definiteness agreement attaches the *ha-* definite morpheme to the head noun and the adjective and demonstrative modifiers which follow it, as in (c) above. In construct state constructions, however, *ha-* attaches only once, to the following adjunct noun, thus:

(a)   Noun + Adjective NP: *ha-kufsa   ha-gdola ha-zot*
                             the-box + f. the-big   the-this = this big box
(b)   Noun + Noun Construct: *kufsat- ha-gafrurim ha-zot*
                             box-   the-matches the-this = this box of matches

Speakers often prepose the definite marker to the entire construct state construction, to yield non-normative combinations like *ha-kufsat gafrurim*, particularly but not only in highly lexicalized construct state compound nouns. As a result of difficulties in online processing, the definite marker is sometimes attached to both the head and adjunct noun, as in ungrammatical *ha-kufsat ha-gafrurim*. In general, however, the classical requirement of number and gender agreement on the head noun and its associated adjuncts is preserved for adjectives and demonstratives, and avoided with noun adjuncts in construct state constructions.

Classes of Simple Clauses: Interrogatives, Negatives

Imperatives and passives are formed through verb inflections (see pp. 318–323). Interrogatives take two main forms. Yes–no questions are marked simply by rising intonation. A special interrogative particle *ha'im* 'whether' is rare in current usage. In information questions, sentence-initial question words replace the questioned constituent with otherwise basic clause structure; the normative requirement for SV inversion with a preposed question word is generally not observed, and one hears both *le'an ha-yéled halax?* 'to-where the-child went?' and *le'an halax ha-yéled?* 'to-where went the child?' (see p. 323). Prepositional markers of case and adverbial relations are fronted with the question word, since Hebrew disallows stranded or orphan prepositions, e.g. *im mi hu halax?* 'with who(m) did he go?', *al ma hem medabrim?* 'on what they talk = what are they talking about?'

Modern Hebrew has three main negative morphemes, the basic *lo* 'no, not', and more restricted *eyn, al*. The morpheme *lo* serves for general denial as the opposite of *ken* 'yes', and also for sentence negation in main and subordinate clauses. It is located immediately preceding the verb phrase, e.g. *hu lo yada* 'he not knew = he did not know' , *hu bevaday lo yada* 'he certainly did not know', *hu lo raca ladá'at* 'he did not want to-know', *ha-yéled ha-ze af pa'am lo haya yodea* 'that boy never not was know = that boy would never have known'. The last example shows that lexical negation and constituent negation require *lo* to be used with the negative adverb or indefinite pronoun, e.g. *af-pa'am lo* 'never not', *ani lo hikárti šam af exad* 'I not knew there nobody = I did not know anybody there'.

Normatively, the negator *eyn* is required in present tense. Modern Hebrew uses *lo* in present as well as past and future tense, e.g., *ani lo yodéa* 'I not know = I don't know'. This is rendered by forms like *eyn ani yodéa* or with a pronominal subject-agreeing suffix, *ani eyn-éni yodéa* only in highly formal, self-conscious usage. The negator *eyn* has, however, been retained in present tense existential and possessive constructions as the negative counterpart of the existential particle *yeš*, e.g. present tense *eyn kša'im itam* 'not difficulties with-them = there are no difficulties with them' compared with past tense *lo hayu kša'im itam* 'not were diffi-

culties with-them = there weren't any difficulties with them' (see p. 329).

In imperatives, the special negator *al* is used with a future tense form of the verb in 2nd person, thus: *al tedaber!* 'Neg. 2nd-will-speak = don't talk!', *al teʾézu* 'Neg. 2nd-will-dare + pl.' = 'don't dare +pl.'.

Subordination

Modern Hebrew has extended the Mishnaic morpheme *še-* 'that' to meet nearly all its subordinating functions, as follows. It serves as the major marker of complement clauses both in subject and postverbal position, for instance following verbs of saying and of cognition. The only exception is with indirect questions, which take question words (see p. 327), except for yes–no questions, which are embedded by means of the particle *im* 'if, whether', e.g. *hu lo yada šelim hi tavo* 'he not knew that/if she will-come = he did not know that/whether she would come'. As this example shows, the tense of embedded complement clauses is relative to that of the matrix verb, e.g. *hu lo yodea še hi ozevet/azva/taʿazov* 'he does not know that she is-leaving/has-left/will-leave' compared with *hu lo yada še hi ozevet/ azva/taʾazov* 'he did not know that she was leaving, had left, would leave'. And the same applies to embedded questions, that is, complements introduced by question words.

Relative clauses, too, rely mainly on the single relative subordinator *še-*, which alternates with *ha-* before *benoni* form verbs or with Biblical *ašer* in formal style only. The internal construction of relative clauses depends on the grammatical relation which is relativized. Subject relatives typically contain only *še-* with no overt pronoun, e.g. *ha-baxur še azav* 'the-boy that left', *ha-kisʾot še naflu* 'the-chairs that fell; accusative object relatives may but need not take a pronominal copy, e.g,. *ha-baxur še Miryam ohevet (oto)* 'the-boy that Miriam loves (him)', *ha-kisʾot še xašavnu liknot (otam)* 'the chairs that we-thought of-buying (them)'; and oblique object relatives require a pronominal copy suffixed to the case marking or adverbial preposition, e.g. *ha-baxur še dibarnu ito* 'the-boy that we-talked to-him, *hakisʾot še yašavnu aleyhem* 'the-chairs that we-sat on-them'. The order of elements in these last two examples is considered normative, but current usage often preposes the pronominal copy, with or without elision of the relative marker *še*, e.g., *hakisʾot še aleyhem yašavnu, hakisʾot aleyhem yašavnu.* In casual usage the oblique pronoun copy may be omitted, e.g. substandard *ha-šita še hištamašnu* 'the-method that we-used' in place of required *ha-šita še hištamašnu ba* '... that we-used with-it'. Another substandard or juvenile but widespread tendency in adverbial relative clauses is to replace personal pronoun copying by question words subordinated by *še-*. Compare normative *ze kara ba-makom še yašavnu bo/šam* 'it happened in-the-place that we-sat in-it/there' with casual *ha-makom efo še yašavnu* ' the place where that we-sat'.

Adverbial clauses are typically introduced by prepositions subordinated by *še*, e.g., *ze kara lifney haʾaruxa* 'it happened before the-meal' versus *ze kara lifney še axalnu* 'it happened before (that) we-ate'. An exception is the subordinating particle *kiy*, originally used to mark complement clauses, today confined primarily to

reason clauses, e.g. *ha-tinok baxa kiy (hu) nafal* 'the-baby cried because (he) fell'. Extension of *še* to non-normative contexts occurs in the common use of prepositional *biglal* 'owing-to' as an adverbial conjunction, e.g. *ha-tinok baxa biglal še nafal* 'the-baby cried owing-to that (he) fell'. In contrast, the conjunction *ve-* 'and' is favored over normative *še* for subordination with morphemes which do not also function as prepositions, e.g. normative *yitaxen še yavo* 'likely that (he) will come = 'it's likely he will come' is replaced by *yitaxen ve-*, *me'axar še nafal* 'since that (he) fell = because he fell' becomes *me'axar ve nafal*, evidently as a hypercorrection. This group of formatives seems to be undergoing reorganization, so that *še* and *ve-* are in complementary distribution in these non-normative environments.

Different morphemes are used in **conditional clauses:** *im* 'if, whether' in realis conditionals, e.g. *egmor bazman im ta'azor li* 'I'll finish on-time if you will-help me', and *(i)lu* elsewhere, e.g. *hayiti gomer bazman lu azarta li* 'was-1st finishing = I would have finished on time if you-(had) helped me', or negative *hayiti gomer bazman luley hifrata li* 'I would have finished on time if not you-bothered me = if you had not interfered'. Spoken usage tends to neutralize the distinction, extending *im* to irrealis contexts, e.g. *im hayita ba, ze haya ozer* 'if you were-coming (= would come ~ would have come), it would help ~ have helped me'.

Copular, Possessive, and Existential Constructions

Modern Hebrew is a non-*habere* language, with no separate verb meaning 'have' or 'possess'. The copular verb *haya* 'be' functions in equational, possessive, and existential constructions, nonfinite, and past and future tense, but it has different realizations in present tense contexts. The first set of examples below are of different types of equational sentences. These are typically subject initial, and the predicate may be either a noun phrase, an adjective phrase, or a locative, as in (a), (b), and (c) respectively.

(a)	*Dan*	*haya*	*xaver*	*šeli*	
	Dan	was	friend	of-me	'Dan was my friend'
(b)	*Dan*	*yihye*	*mat'im*	*me'od*	
	Dan	will-be	suitable	very	'Dan will be very suitable'
(c)	*Dan*	*asuy*	*lihyot*	*baxeder haze*	
	Dan	may	to-be	in that room	'Dan is liable to be in that room'

Existential and possessive constructions use an invariable particle *yeš* in present tense, and a form of *haya* elsewhere, with *eyn* in the negative. These constructions typically take the surface form *yeš/haya* + NonDefinite Subject + (Locative) for existentials, as below.

(a)	*yeš/eyn*	*talmidim*	*ba-kita*	
	be/not	students	in-class	'There are/aren't any students in class'
(b)	*hayu/lo hayu*	*talmidim*	*hayom*	

	were/not were	students	today	'There were/weren't any students today'
(c)	*yihyu/lo yihyu*	*talmidim*		
	will-be/won't be	students		'There will/won't be any students'

As in many languages, the existential copula also serves in possessive constructions. The possessor is marked by dative case, the possessee is traditionally nominative. However, where the possessee is definite, there is a tendency to treat it as accusative, with the object-marking prepositional *et*, as in (b) below.

(a)	*yeš*	*le-Dan/lo*	*talmidim*	*tovim*	
	be	to-Dan/to-him	students	good	= Dan/he has good students
(b)	*yeš*	*lanu/la-talmidim*	*(et) hasfarim*		
	be	to-us/to-the-students	(ACC.) the-books		= we/the students have the books
(c)	*haya*	*li/la-horim šeli*	*(et) hakesef*		
	was	to-me/to-my parents	(ACC.) the-money		= I/my parents had the money

The possessor in (a) above can be fronted to yield *le-Dan yeš talmidim tovim* or right dislocated to *talmidim tovim yeš lo, le-Dan*.

Nominal Constructions

This heading deals with two classes of constructions which are of considerable interest in Modern Hebrew. In the first, construct state genitives traditionally termed *smixut* 'adjacency', Modern Hebrew has taken over devices from both Biblical and Mishnaic Hebrew, and has extended these by constructions found in European languages (see p. 330), while in the case of verbal nouns, Modern Hebrew prefers Mishnaic to Biblical forms of expression (see p. 331).

Construct State and Genitive Constructions

The traditional *smixut* structure in which two nouns are strung together, an initial, bound head noun and a following, free adjunct noun, is an instance where Modern Hebrew has absorbed and adapted elements from different periods in its past. This bound form is used for two main purposes: for vocabulary extension by lexicalized compounds (see p. 322) and, in formal style, for syntactic combination of strings of nouns. In casual style, Modern Hebrew prefers the analytic version with the genitive particle *šel* of the Mishnaic period, particularly, but not only, to express possession, e.g., bound, lexicalized *kova-gerev* 'hat-stocking = balaclava cap', *kovaʿey-yam* 'hats-sea = bathing caps', compared with *ha-kova šel Dan* 'the hat of Dan = Dan's hat', *kovaʿim šel xayalim* 'soldiers' hats'. A third option, the so-called double *smixut*, with a pronominal copy of the adjunct noun suffixed to the initial, head noun, is rare in spoken usage, but common in newspaper and other written styles, e.g. *kovaʿo šel Dan* 'hat-his of Dan = Dan's hat', *sipurav šel ha-zaken* 'stories-his of the-old man = the old man's tales'.

Modern Hebrew relies on two other options for juxtaposing nominals in a head plus adjunct relation. The first is use of prepositions rather than the genitive particle *šel* to provide a more analytic means of combining nouns. Compare, for ex-

ample, *kova léved* 'hat felt = a felt hat' with ablative *kova mi-leved* 'a hat from felt', *simlat pasim* 'dress- stripes' with *simla im pasim* 'a dress with stripes', *xanut basar* 'store-meat' with *xanut le-basar* 'a store for meat'. The second is reliance on denominal adjective formation (see p. 322); compare construct *sixat telefon* with noun–adjective *sixa telefonit* 'telephone(y) conversation', *avodat misrad* with *avoda misradit* 'office(y) work', *tiyul layla* with *tiyul leyli* 'night(ly) walk'. These two devices are not normatively sanctioned, but like many of the departures from classical norms noted above, they provide Modern Hebrew with a richly var-ied set of options for expressing the relationship between two nouns.

Gerunds and Derived Nominals
Modern Hebrew has extended a structure introduced in Mishnaic times, the forms termed *šem pe‘ula* 'action noun', for nominalization, e.g. *ha-baxur diber* 'the-boy spoke' > *dibur(o šel) ha-baxur* 'the-speech (of) the boy', *ha-baxur azav* 'the-boy left' > *azivat(o šel) ha-baxur* 'the-boy's departure'. These provide formal, written Hebrew with a productive means of nominalization, through forms which are morphologically related to the *binyan* pattern of the associated verbs. The case re-lations of the underlying clause are maintained, but the subject is postposed to the nominalized verb, thus: *ha-baxur daxa et hara‘ayon* 'the boy rejected ACC. the-idea' > *dxiyat ha-baxur et hara‘ayon* 'the-rejection (of) the boy ACC. = of the-idea = the boy's rejection of the idea' compared with *ha-baxur serev la-haca‘a* 'the boy refused to the-offer' > *seruv habaxur la haca‘a* 'the boy's refusal to = of the offer'. Such constructions, like nominalizations in general, are typical of more formal style and of newspaper and media usage, rather than everyday speech. But they represent a productive set of devices in current Hebrew syntax.

In contrast, nominalization by the Biblical *šem po‘al* 'verbal noun' or gerund is highly restricted. Stylistically, these forms are confined to formal and newspaper usage; and semantically, they function only as temporal adverbials. Moreover, syntactically, unlike the *šem pe‘ula* action nominals which can stand alone with-out an overt agent nominal, and so can be lexicalized as independent nouns, ger-unds demand a surface postposed subject. Compare the gerund *be-cet ha-baxur meha-xeder* 'on-leaving the-boy ACC. from the-room' = 'on the boy's departing from the room' with the action nominal form *ba-yeci’a (šel ha-baxur) meha-xeder* 'on the departure (of the boy)/exit from the room'.

Language Variation
The preceding notes on nominalizing constructions in Modern Hebrew illustrate how the language has taken over different devices from different strata in its his-tory. This has allowed for differentiation between more classical norms and bound morphological forms of formal or literary style and the kind of nominalizing and other constructions preferred in "medium-level" journalistic and academic writ-ing. And these in turn contrast with the preference for more analytic, simple clause structure with overt subjects and tensed verbs of colloquial speech. Current

Hebrew usage reflects an increasing diglossia between the formal, written norms stipulated by the language establishment and the schools, on the one hand, and the way young people graduating from these schools in fact use the language in their everyday spoken communication, on the other.

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16 The Neo-Aramaic Languages

Otto Jastrow

Western Neo-Aramaic

Western Neo-Aramaic (WNA) has been preserved only in three villages in the Qalamūn mountains north-east of Damascus, Syria, namely Maʻlūla, Baxʻa and Ǧubbʻadīn. Maʻlūla to this day is a predominantly Christian place, but the inhabitants of Baxʻa and Ǧubbʻadīn are now all Muslims. Nevertheless they continue to speak Neo-Aramaic, which is a unique fact in the history of Aramaic. Although each of the three villages has a distinct dialect of its own (henceforward referred to as Ma., Ba. and Ǧ) the overall structure of the language is much the same. The present sketch of WNA relies heavily on the work of Werner Arnold (see Further Reading).

WNA has been exposed only to a single adstrate/superstrate language, namely Arabic. It is flooded with Arabic vocabulary which has, however, except for very recent loans, been adapted to WNA phonology and morphology so as to become almost indistinguishable from the inherited stock. In phonology and morphology WNA is very conservative, reflecting closely the language structure of Middle Aramaic (between 500 and 1000 CE approximately).

The description focuses on the dialect of Maʻlūla (Ma.); diverging forms of the other two dialects are cited as seems appropriate.

Phonology
Consonants

p b	t [d]	ṭ	k	ḳ [g]			[ʾ]
	(c)		(č) (ǧ)				
f	θ ð	ð̣		x γ	ḥ ʻ	h	
	s z	ṣ ẓ	š (ž)				
m	n						
	l						
	r						
w			y				

The consonant system of the three dialects is on p. 334 (phonemes not occurring in all three dialects are put in parentheses, phonemes only occurring in unassimilated loans are put between square brackets).

k is a palatalized prevelar to plainly palatal stop [c], *ḳ* a distinctly postvelar but not uvular stop [k], *c* a dental affricate [ts], *č* a palatal affricate [ʧ]. *ṭ*, *ṣ*, *ḏ̣*, *ẓ* are "emphatic" (velarized) consonants, the latter two occurring only in Arabic loans. Arabic *ǧ* is realized as *ǧ* [ʤ] in Baxʿa but as *ž* [ʒ] in Maʿlūla and Ǧubbʿadīn, reflecting rural and urban Arabic usage respectively.

In Middle Aramaic each of the six stops *p, b, t, d, k, g* was split into two positional variants (allophones), an initial, postconsonantal and geminate one continuing the older stop and a postvocalic one yielding the corresponding fricative, e.g. *p̄, ḇ, ṯ, ḏ, ḵ, ḡ*. In WNA the fricative allophone was generalized to initial position. The resulting twelve consonants later acquired phonemic status. They have been preserved rather well in WNA, as can be seen below. (The diachronic/synchronic symbols *p̄/f, ḇ/v, ṯ/θ, ḏ/δ, ḵ/x, ḡ/γ* denote the same sound.)

Middle Aramaic	Ma.	Ba.	Ǧ	Examples Ma./Ba./Ǧ	
*p >	f	f	f	*affek affek affeḳ*	'he took out'
*p̄ >	f	f	f	*foγla foγla foγla*	'radish'
*b >	p	p	p	*zappen zappen zappen*	'he sold'
*ḇ >	b	b	b	*δēba δēba δēba*	'wolf'
*t >	č	c	č	*berča berca berča*	'daughter'
*ṯ >	θ	θ	θ	*ḥōθa ḥōθa ḥōθa*	'sister'
*d >	t	t	t	*γelta γelta γelta*	'leather, hide'
*ḏ >	δ	δ	δ	*δōδa δōδa δōδa*	'uncle'
*k >	k	k	č	*malka malka malča*	'king'
*ḵ >	x	x	x	*xarma xarma xarma*	'vineyard'
*g >	k	k	č	*θelka θelka θelča*	'snow'
*ḡ >	γ	γ	γ	*γerma γerma γerma*	'bone'

Vowels
WNA has a system of five long and five short vowels; there are also two diphthongs:

ī		ū		i		u		
	ē	ō			e	o		
		ā				a		ay	aw

The phonemic status of the short vowels *i, e* and *u, o* is shown by minimal pairs like Ma. *fθoḥla* 'open (m.) to her!' vs. *fθuḥla* 'open (f.) to her!', Ma. *čṭuʿnenna*

'that you (m.) carry her' vs. *ču̇ʿninna* 'that you (f.) carry her', Ma. *čaḥref* 'that you (m.) answer' vs. *čaḥrif* 'that you (f.) answer'.

Distribution

Long vowels occur only in stressed syllables; consequently there can be only one long vowel in each word. Long vowels occur both in open and closed syllables. Short vowels occur in stressed and unstressed, open and closed syllables. Thus, long and short vowels can contrast both in open and closed syllables, e.g. Ma. *ḥōčma* 'judge' vs. *ḥočma* 'judgment', Ba. *īδa* 'hand' vs. *iδa* 'when'.

Long vowels are replaced regularly by short ones when the stress is shifted to the following syllable, e.g. Ma. *ḥūya* 'snake' but *ḥuyō* 'snakes'; *ō* which histori- cally derives from *ā* is replaced by *a*, e.g. Ma. *fallōḥa* 'peasant' but *fallaḥō* 'peas- ants'. Long vowels are **not** shortened when the stressed syllable is closed by a morphological process such as derivation or inflection. This latter fact distin- guishes WNA from Eastern Neo-Aramaic (ENA).

Umlaut

The vowels *ē, e, ō, o* are raised to *ī, i, ū, u* when a suffix containing *ī/i* (or whose older form contained *ī/i*) is added, e.g. Ma. *kommax* 'in front of you (m.)' but *kummiš* 'in front of you (f.)', *berčax* 'your (m.) daughter' but *birčiš* 'your (f.) daughter'. In some cases the vowel which triggered the umlaut is no longer there so that the umlaut itself has taken over morphemic function. Compare the follow- ing imperatives in which the suffix *-ī* of the feminine has already been lost during the Middle Aramaic period: Ma. *fθōḥ* 'open (m.)!' vs. *fθūḥ* 'open (f.)!', *aḥrēf* 'an- swer (m.)!' vs. *aḥrīf* 'answer (f.)!'

Reduction of Geminates

In Ǧubbʿadīn historical word-final geminates (long consonants) were reduced to simple consonants; the preceding vowel was lengthened in compensation, e.g. *ḥačč > ḥāč* 'you (sg. m.)', *θarʿayy > θarʿāy* 'their doors'.

Word Stress

Word stress is usually on the penultimate; the last syllable is stressed if it has a long vowel or ends in two or more consonants. Thus (stress indicated by bold vowel): Ma. *zappen* 'he sold', but *zappēn!* 'sell (m.)!', Ma. *yifθuhˀl* 'he opens for me'. Any divergence from this rule is indicated by an acute (´) on the stressed vowel.

Schwa

Groups of two or more consonants may be alleviated by the insertion of a non- phonemic, functionally non-syllabic ultra-short vowel *ˀ*, e.g. Ǧ *ḥačˀx* 'you (pl. m.)', Ma. *yifθuhˀl* 'he opens for me'.

Morphology

Pronouns

Table 16.1   Independent personal pronouns

		Ma'lūla	Bax'a	Ǧubb'adīn	
Sg.	1c.	ana	ana	ana	'I'
Pl.	1c.	anaḥ	anaḥ	anaḥ	'we'
Sg.	2m.	hačč(i)	hacc	hāč	'you (sg. m.)'
	f.	hašš(i)	hašš	hāš	'you (sg. f.)'
Pl.	2m.	hačxun	hacxun	hačᵊx	'you (pl. m.)'
	f.	hačxen	hacxun	hačxen	'you (pl. f.)'
Sg.	3m.	hū	hū	hū(h)	'he'
	f.	hī	hī	hī(h)	'she'
Pl.	3m.	hinn(un)	hinn	hīn	'they (m.)'
	f.	hinn(en)	hinn	hinnen	'they (f.)'

Bax'a has given up gender distinction in the plural. The form of the original masculine has been generalized.

Pronominal Suffixes

Pronominal suffixes are joined to nouns to express possession, to prepositions to express relation and to verbs to express a pronominal object. Before the pronominal suffixes the nominal suffix -*a* of the singular is dropped, the suffix -*ō* of the plural shows an older form -*ōy* which is shortened to -*ay* before the plural suffixes. The singular and plural of the noun *tarba* 'way, path' with pronominal suffixes in Ma'lūla is shown below; sg. 1c. -*(i)* is optional.

		tarba	*tarbō*
Sg. 1c.		*tarb(i)*	*tarbōy(i)*
Pl. 1c.		*tarbaḥ*	*tarbaynaḥ*
Sg. 2m.		*tarbax*	*tarbōx*
	f.	*tarbiš*	*tarbōš*
Pl. 2m.		*tarbxun*	*tarbayxun*
	2f.	*tarbxen*	*tarbayxen*
Sg. 3m.		*tarbe*	*tarbōye*
	f.	*tarba*	*tarbōya*
Pl. 3m.		*tarbun*	*tarbayhun*
	f.	*tarben*	*tarbayhen*

In Ǧubb'adīn there is a facultative variant of the sg. 3f. suffix in which a final -*h* is preserved: *tarba* ~ *tarbah* 'her path'. Otherwise the noun with sg. 3f. pronominal suffix is identical with the simple noun.

Demonstrative Pronouns

WNA has two sets of demonstrative pronouns denoting closeness and remoteness respectively. Ma'lūla has:

	Close	Remote
Sg. m.	*hanna*	*hōθe*
f.	*hōd(i)*	*hōθa*
Pl. m.	*hann(un)*	*haθinn(un)*
f.	*hann(en)*	*haθinn(en)*

Interrogative Pronouns

	Ma'lūla	Bax'a	Ǧubb'adīn
'who?'	*mōn*	*man*	*mūn*
'what?'	*mō*	*mā ~ ma*	*mā(h) ~ ma(h)*

Nouns

Nominal Endings

Inherited Aramaic nouns as well as the majority of adapted foreign (Arabic) nouns are characterized by the ending *-a* in the masculine, *-θa ~ ča* (Bax'a *-ca*) in the feminine:

Ma'lūla	Bax'a	Ǧubb'adīn	
θar'a	*θar'a*	*θar'a*	'door'
war²kθa	*war²kθa*	*war²kθa*	'(piece of) paper'
bisnīθa	*bisnīθa*	*bisnīθa*	'girl'
ḥōlča	*ḥōlca*	*ḥōlča*	'maternal aunt'

A number of nouns, e.g. parts of body, are treated as feminine although they don't have a feminine ending, e.g. *eδna* 'ear', *šenna* 'tooth' etc.

Plural

There are two kinds of plural: a regular plural and the so-called count plural (*Zähl-plural*) which is used after numerals. The regular plural has the ending *-ōya* (mostly in Ǧubb'adīn) ~ *-ō* for the masculine, *-ōθa ~ yōθa* for the feminine. In the count plural the nominal endings are dropped; Ma'lūla has preserved an archaic count plural *-an* for the feminine, thus:

	Ma'lūla	Bax'a	Ǧubb'adīn	
singular	*θar'a*	*θar'a*	*θar'a*	'door'
plural	*θar'ō*	*θar'ō*	*θar'ō(ya)*	'doors'
count plural	*θar²ʿ*	*θar²ʿ*	*θar²ʿ*	'doors'

singular	*warʾk̠θa*	*warʾk̠θa*	*warʾk̠θa*	'paper'
plural	*wark̠ōθa*	*wark̠ōθa*	*wark̠ōθa*	'papers'
count plural	*wark̠an*	*warʾk̠*	*warʾk̠*	'papers'

Status and Definiteness

The nominal endings continue the *status emphaticus* of Middle Aramaic, the *status absolutus* survives only in the count plural. The adjective, however, has preserved both statuses. The forms reflecting the old *status absolutus* express indefiniteness, while those reflecting the old *status emphaticus* – i.e. those identical with the endings of the noun – express definiteness, e.g. *ifk̠er* 'poor' (forms given for Maʿlūla only):

	Indefinite	Definite
Sg. m.	*ifk̠er*	*fk̠īra*
f.	*fk̠īra*	*fk̠īrča*
Pl. m.	*fk̠īrin*	*fk̠irō*
f.	*fk̠īran*	*fk̠irōθa*

Thus, e.g., *fk̠īra* can mean 'the old one (m.)' or 'an old one (f.)'; 'the old one (f.)' would be *fk̠īrča* etc.

There is no definite article in WNA. A noun can be marked as definite or indefinite by an attributive adjective:

psōna ifk̠er	'a poor boy'
psōna fk̠īra	'the poor boy'
bisnīθa fk̠īra	'a poor girl'
bisnīθa fk̠īrča	'the poor girl'

Other than by the attributive adjective, indefiniteness of a noun can also be marked by the preceding numeral for '1', e.g. *aḥḥaδ psōna* 'one boy; a boy', *eḥδa bisnīθa* 'one girl; a girl'. Definiteness can be marked by using the close demonstrative (see Demonstrative Pronouns, p. 338), e.g. *hanna psōna* 'this boy; the boy'. A noun which is the direct object of a verb is marked as definite by a special suffix *-il* on the verb (see p. 344):

| *šattar ɣabrōna* | 'he sent a man' |
| *šattril ɣabrōna* | 'he sent the man' |

Annexation

Annexation of nouns (also called genitive construction) is analytical, the suffix *-il* ~ *-lʾ* ~ *-ʾl* being joined to the first noun after the nominal ending *-a* has been dropped, e.g. Ma. *berčil ɣabrōna* 'the daughter (*berča*) of the man', *sōblʾ blōta* 'the mayor (*sōba*) of the village'. In Ǧubbʿadīn final *-l* is usually dropped, unless

the following noun has an initial vowel, e.g. Ǧ *berči zalʾmθa* 'the daughter of the man'.

Numerals

WNA is unique among all Neo-Aramaic languages in having preserved different masculine and feminine forms for all numbers from 1 to 19. The forms are given for Maʿlūla only:

	Masculine	Feminine		Masculine	Feminine
1	*aḥḥaδ*	*eḥδa*	11	*eḥδaʿasʾr*	*aḥḥaδaʿsar*
2	*iθri ~ iθʾr*	*θarč*	12	*θarčʿasʾr*	*θleʿsar*
3	*θlōθa*	*eθlaθ*	13	*eθlaθʿasʾr*	*θleččaʿsar*
4	*arpʿa*	*arpaʿ*	14	*arpaʿʿasʾr*	*arpʿačaʿsar*
5	*ḥamša*	*ḥammeš*	15	*ḥammešʿasʾr*	*ḥammeščaʿsar*
6	*šecča*	*šeθθ*	16	*šeθʿasʾr*	*šeččaʿsar*
7	*šobʿa*	*ešbaʿ*	17	*ešbaʿʿasʾr*	*šobʿačaʿsar*
8	*θmōnya*	*θmōn*	18	*θmōnʿasʾr*	*θmōnyačaʿsar*
9	*ṭešʿa*	*eṭšaʿ*	19	*eṭšaʿʿasʾr*	*ṭešʿačaʿsar*
10	*ʿasra*	*eʿsar*			

With numerals above 1, nouns appear in the count plural, thus e.g. *θlōθa θarʾʿ* 'three doors', *eθlaθ warkan* 'three pieces of paper'.

Tens, hundreds and thousands (only Maʿlūla):

20	*ʿisri ~ ʿisʾr*	100	*emʿa*
30	*θlēθ(i)*	200	*θarč emʿa*
40	*irpʿi ~ irpʾʿ*	300	*eθlaθ emʿa* etc.
50	*ḥimši ~ ḥimʾš*		
60	*šičč(i)*	1000	*ōlef*
70	*šubʿi ~ šubʾʿ*	2000	*θarč ōlef*
80	*θmēn(i)*	3000	*eθlaθ ōlef* etc.
90	*ṭišʿi ~ ṭišʾʿ*		

Verbs

Generalities

Verbal roots consist of three or, more rarely, four consonants. "Weak" roots comprise one or two of the "weak" consonants ʾ, *w* and *y* which may not show on the surface of every inflected form.

The two old Semitic tenses, perfect and imperfect, have been preserved; they are here called past tense and subjunctive. The two old participles, the active participle *qāṭel* and the passive participle *qṭīl*, have provided the basis for two new tenses, the present (from *qāṭel*) and the perfect (from *qṭīl*), a development already observable in the Middle Aramaic period.

Derivation

The six derivational classes or stems of Middle Aramaic have been preserved in WNA. Arabic verbs with fitting canonical forms have been adapted into these stems (e.g. Arabic stem I verbs into stem I etc.). In addition a number of stems from Arabic have been integrated into the system.

Table 16.2   Verb Derivation

Present designation	Reflects Aramaic	Reflects Arabic	Example	
I	peʿal	stem I	iḵtal	'to kill'
II	paʿʿel	stem II	zappen	'to sell'
III		stem III	sōfar	'to travel'
IV	afʿel	stem IV	aḥref	'to answer'
I₂	eθpeʿel		iččxel	'to be eaten'
II₂	eθpaʿʿal	stem V	čḥayyaṭ	'to be sewn'
III₂		stem VI	čḥōṣar	'to be encircled'
IV₂	ettafʿal		ččarnaḥ	'to be put'
I₇		stem VII	in°fθah	'to be opened'
I₈		stem VIII	in°čγab	'to be stolen'
I₁₀		stem X	sčaṣʿeb	'to find difficult'

Two of the above stems, I_2 and IV_2, are quite rare and will be left out in the following table. The table shows, for each of the remaining stems, the basic form of the four tenses. In the two old tenses, past tense and subjunctive, the sg. 3m. is given as a base; in the two new tenses, present and perfect, the sg. 3m. and sg. 3f. are given. All forms are Maʿlūla. For the inflection see below.

Stem I has several different vocalizations. Beside the past tense *iḵtal*, WNA has also inherited an intransitive type with *e* in the second syllable, e.g. *iδmex* 'he slept'. In the subjunctive the second syllable can have *u* or *a*. The following combinations occur in Maʿlūla:

iḵtal	:	*yiḵṭul*	'to kill'
iskaṭ	:	*yiskaṭ*	'to fall'
iδmex	:	*yiδmux*	'to sleep'
išmeʿ	:	*yišmaʿ*	'to hear'

Inflection

The two archaic tenses, the past and the subjunctive, are still inflected pretty much as in Middle Aramaic. The two newly formed tenses, the present and the perfect, are inflected in a completely different way which is similar to the "predicative inflection" of Eastern Neo-Aramaic; however, the subject marker is **prefixed**, not suffixed. Compare WNA *n-fōθeḥ* vs. ENA (Ṭuroyo) *fōtāḥ-no* 'I open'.

The **past tense** is inflected by means of suffixes. Below is the past tense of *ifθah* 'he opened' (stem I), *zappen* 'he sold' (stem II), *sōfar* 'he traveled' (stem III) and *arkeš* 'he woke up' (stem IV). These are all from Maʿlūla.

Table 16.3   Tense formation

Stem	Past	Subjunctive	Present	Perfect	
I	iḵṭal	yiḵṭul	m. ḳōṭel	m. iḵṭel	'to kill'
			f. ḳōṭla	f. ḵṭīla	
II	zappen	yzappen	m. mzappen	m. zappen	'to sell'
			f. mzappna	f. zappīna	
III	sōfar	ysōfar	m. msōfar	m. sōfar	'to travel'
			f. msafīra	f. safīra	
IV	aḥref	yaḥref	m. maḥref	m. aḥref	'to answer'
			f. maḥrᵊfa	f. aḥrīfa	
II₂	čḥayyaṭ	yičḥayyaṭ	m. mičḥayyaṭ	m. čḥayyeṭ	'to be sewn'
			f. mičḥayyṭa	f. čḥayyīṭa	
III₂	čḥōṣar	yičḥōṣar	m. mičḥōṣar	m. čḥōṣer	'to be encircled'
			f. mičḥaṣīra	f. čḥaṣīra	
I₇	inᵊfθaḥ	yinᵊfθaḥ	m. minᵊfθaḥ	m. inᵊfθeḥ	'to be opened'
			f. minfaθḥa	f. inᵊfθīḥa	
I₈	inᵊčɣab	yinᵊčɣab	m. minᵊčɣab	m. inᵊčɣeb	'to be stolen'
			f. minčaɣba	f. inᵊčɣība	
I₁₀	sčaṣʿeb	yisčaṣʿeb	m. misčaṣʿeb	m. sčaṣʿeb	'to find difficult'
			f. misčaṣᵊʿba	f. sčaṣʿība	

Sg. 1c.	*faθḥiθ*	*zappniθ*	*safīriθ*	*arkšiθ*
Pl. 1c.	*faθḥinnaḥ*	*zappninnaḥ*	*safīrinnaḥ*	*arkšinnaḥ*
Sg. 2m.	*faθḥič*	*zappnič*	*safīrič*	*arkšič*
f.	*faθḥiš*	*zappniš*	*safīriš*	*arkšiš*
Pl. 2m.	*faθḥičxun*	*zappničxun*	*safīričxun*	*arkšičxun*
f.	*faθḥičxen*	*zappničxen*	*safīričxen*	*arkšičxen*
Sg. 3m.	*ifθaḥ*	*zappen*	*sōfar*	*arkeš*
f.	*faθḥaθ*	*zappnaθ*	*safīraθ*	*arkšaθ*
Pl. 3c.	*ifθaḥ*	*zappen*	*sōfar*	*arkeš*

The older plural endings of the 3rd person have been dropped; they resurface, however, when a pronominal object is added (see p. 345):

	(Sg. 3m.)	→	*faθḥe*	'he opened it (m.)'
ifθaḥ	(Pl. 3m.)	→	*faθḥunne*	'they (m.) opened it (m.)'
	(Pl. 3f.)	→	*faθḥanne*	'they (f.) opened it (m.)'

The **subjunctive** is inflected by a combination of prefixes and suffixes. Below is the subjunctive of *yifθuḥ* 'that he open' (stem I), *yzappen* 'that he sell' (stem II), *ysōfar* 'that he travel' (stem III) and *yaḥšem* 'that he eat dinner' (stem IV). These are all from Maʿlūla.

Sg. 1c.	*nifθuḥ*	*nzappen*	*nsōfar*	*naḥšem*
Pl. 1c.	*nifθuḥ*	*nzappen*	*nsōfar*	*naḥšem*

Sg. 2m.	*čifθuḥ*	*čzappen*	*čsōfar*	*čaḥšem*
f.	*čifθuḥ*	*čzappin*	*čsōfar*	*čaḥšim*
Pl. 2m.	*čfuθḥun*	*čzappnun*	*čsafīrun*	*čaḥᵊšmun*
f.	*čfuθḥan*	*čzappnan*	*čsafīran*	*čaḥᵊšman*

Sg. 3m.	*yifθuḥ*	*yzappen*	*ysōfar*	*yaḥšem*
f.	*čifθuḥ*	*czappen*	*čsōfar*	*čaḥšem*
Pl. 3m.	*yfuθḥun*	*yzappnun*	*ysafīrun*	*yaḥᵊšmun*
f.	*yfuθḥan*	*yzappnan*	*ysafīran*	*yaḥᵊšman*

Present and **perfect:** The inflectional bases for present and perfect are old participles which have four different forms, namely sg. m., sg. f., pl. m., pl. f. Without any subject prefix added they function as 3rd persons, e.g. in the present:

Sg. 3m.	*ṭō⁽en*	'he carries'
f.	*ṭō⁽na*	'she carries'
Pl. 3m.	*ṭō⁽nin*	'they (m.) carry'
f.	*ṭō⁽nan*	'they (f.) carry'

With a prefixed subject marker *č-* these forms become 2nd person, and with a prefixed subject marker *n-* they become 1st person, e.g.:

Sg. 2m.	*čṭō⁽en*	'you (m.) carry'
f.	*čṭō⁽na*	'you (f.) carry'
Pl. 2m.	*čṭō⁽nin*	'you (pl. m.) carry'
f.	*čṭō⁽nan*	'you (pl. f.) carry'

Sg. 1m.	*nṭō⁽en*	'I (m.) carry'
f.	*nṭō⁽na*	'I (f.) carry'
Pl. 1m.	*nṭō⁽nin*	'we (m.) carry'
f.	*nṭō⁽nan*	'we (f.) carry'

Thus, due to the origin of these forms, there is gender distinction not only in the 3rd and 2nd person but also in the 1st person, which is a rather rare feature in a Semitic language.

The perfect is inflected in the same way. Thus, e.g., the perfect of the verb 'to carry' is *iṭ⁽en*, with the following forms of the 3rd person:

Sg. 3m.	*iṭ⁽en*	'he has carried'
Sg. 3f.	*ṭ⁽īna*	'she has carried'
Pl. 3m.	*ṭ⁽īnin*	'they (m.) have carried'
Pl. 3f.	*ṭ⁽īnan*	'they (f.) have carried'

The remaining persons are inflected as shown, except that the subject markers are *či-* and *ni-* rather than *č-* and *n-* because the base begins with a cluster of two consonants: *niṭ⁽en* 'I (m.) have carried', *niṭ⁽īna* 'I (f.) have carried' etc.

Imperative: By detaching the inflectional prefix y- from the sg. 3m. of the subjunctive, one arrives at the sg. m. of the imperative, e.g. *yifθuḥ* → *ifθuḥ, yzappen* → *zappen* and so on. Usually the imperative has two variants, one with the stress on the penultimate, and another one, now used more frequently, with stress on the last syllable and concomitant lengthening of the vowel, thus *zappen ~ zappēn* 'sell (sg. m.)!'. If the vowel of the final syllable of the masculine form is *e/ē* or *o/ō* it is raised to *i/ī* or *u/ū* in the feminine: *zappin ~ zappīn* 'sell (sg. f.)!'. The plural endings are *-un* for the masculine and *-en* for the feminine; they can also be stressed and their vowel lengthened. The plural endings cause the same reshuffling of the syllable as the plural suffixes of the subjunctive, the initial vowel *i* in open syllable is elided, thus *ifθuḥ* 'open (sg. m.)!' but *fuθḥun* 'open (pl. m.)!' (cf. in the subjunctive *yifθuḥ, yfuθḥun*). The imperatives of stems I–IV are shown in Table 16.4.

Table 16.4   Imperative

Stem	Subjunctive		Imperative	
I	yifθuḥ	sg. m.	ifθuḥ ~ fθōḥ	'open!'
	(yfuθḥun)	sg. f.	ifθuḥ ~ fθūḥ	
		pl. m.	fuθḥun ~ fuθḥōn	
		pl. f.	fuθḥen ~ fuθḥēn	
II	yzappen	sg. m.	zappen ~ zappēn	'sell!'
	(yzappnun)	sg. f.	zappin ~ zappīn	
		pl. m.	zappnun ~ zappnōn	
		pl. f.	zappnen ~ zappnēn	
III	yšōreṭ	sg. m.	šōreṭ ~ šarēṭ	'bet!'
	(yšarīṭun)	sg. f.	šōriṭ ~ šarīṭ	
		pl. m.	šariṭōn	
		pl. f.	šariṭēn	
IV	yaḥref	sg. m.	aḥref ~ aḥrēf	'answer!'
	(yaḥrᵊfun)	sg. f.	aḥrif ~ aḥrīf	
		pl. m.	aḥᵊrfun ~ aḥᵊrfōn	
		pl. f.	aḥᵊrfen ~ aḥᵊrfēn	

Weak Verbs
WNA is very rich in weak and irregular verbs. A detailed description is impossible within the limits of the present sketch. The following table shows the most important types for stem I. For each inflectional paradigm two forms are cited: for the subjunctive sg. 3m. and pl. 3m., for the remaining tenses sg. 3m. and sg. 3f.

Verb with Nominal Accusative Objects
A noun which is the direct (accusative) object of a verb follows the unmodified verb form if indefinite: *šattar* 'he sent', *šattar yabrōna* 'he sent a man'. Definiteness of the object noun is marked by a special suffix *-il* on the verb: *šattril yabrōna* 'he sent the man'.

Table 16.5   Weak verbs

Root	Past	Subjunctive	Present	Perfect	Imperative	
1y	ilef	yīlaf	lōyef	layyef	lfā	'to learn'
	ilfaθ	yilfun	lōyfa	layyīfa	lfāy	
1ʾ	axal	yīxul	ōxel	ixel	xōl	'to eat'
	axlaθ	yūxlun	ōxla	xīla	xūl	
2w	aḳam	yīḳum	ḳōyem	ḳayyem	ḳōm	'to stand'
	ḳōmaθ	yḳūmun	ḳōyma	ḳayyīma	ḳūm	
2y	ameθ	yīmuθ	mōyeθ	imeθ	mōθ	'to die'
	mīθaθ	ymūθun	mōyθa	mīθa	mūθ	
2=3	alam	yillum	lōmem	ilmem	lōm	'to gather'
	lammaθ	ylummun	lōmma	lmīma	lūm	
3y	iḥʾm	yiḥʾm	ḥōm	ḥamm(i)	ḥmā ~ iḥma	'to see'
	iḥmaθ	yiḥmun	ḥōmya	ḥammīya	ḥmāy ~ iḥmay	
1ʾ 3y	īf(i)	yīf(i)	ōf(i)	īf(i)	ifā ~ īfa	'to bake'
	īfaθ	yīfun	ōfya	ifīya	ifāy ~ īfay	
2w 3y	išw	yišw	mišw	šaww(i)	šwā ~ išwa	'to do'
	išwaθ	yišwun	mišwa	šawwīya	šwāy ~ išway	

Verb with Accusative Object Suffixes
The different origin of the four tenses is also transparent in the way in which suffixes expressing a pronominal accusative object are joined to the verb.

Past and subjunctive take the following set of pronominal object suffixes (not all allomorphs indicated):

Sg. 1c.	-Ø ~ -i	Sg. 2m.	-ax	Sg. 3m.	-e
		f.	-iš	f.	-a
Pl. 1c.	-aḥ	Pl. 2m.	-xun	Pl. 3m.	-un
		f.	-xen	f.	-en

A suffix with initial vowel leads to a reshuffling of the last syllable of the verb, e.g. *ifθaḥ* + -*e* → *faθḥe* 'he opened it (m.)'. Frequently a verb form with object suffix is more archaic than when it stands alone, thus *faθʾḥčunne* 'you (pl. m.) opened it (m.)' reflects **faθʾḥčun* which is older than present-day *faθḥičxun*. In the following table the past and subjunctive of *ifθaḥ*, *yifθuḥ* 'to open' (see Past Tense and Subjunctive, pp. 341–3) in Maʿlūla are repeated with the sg. 3m. suffix -*e*. The suffix has the allomorphs -*ne*, -*enne* and (rarer) -*nu*.

Present and perfect receive the accusative pronominal suffixes through the intermediary preposition -*l*, resulting in the following set (not all allomorphs indicated):

Table 16.6   Verb with object suffixes

		Past	+ -e	Subjunctive	+ -e
Sg.	1c.	faθhiθ	faθhičče	nifθuh	nfuθhenne
Pl.	1c.	faθhinnah	faθ°hlahle	nifθuh	nfuθhenne
Sg.	2m.	faθhič	faθhične	čifθuh	čfuθhenne
	f.	faθhiš	faθhišnu (!)	čifθuh	čfuθhinnu (!)
Pl.	2m.	faθhičxun	faθ°hčunne	čfuθhun	čfuθhunne
	f.	faθhičxen	faθ°hčanne	čfuθhan	čfuθhanne
Sg.	3m.	ifθah	faθhe	yifθuh	yfuθhenne
	f.	faθhaθ	faθhačče	čifθuh	čfuθhenne
Pl.	3m.	ifθah	faθhunne	yfuθhun	yfuθhunne
	f.	ifθah	faθhanne	yfuθhan	yfuθhanne

Sg. 1c.	-l(i)	Sg. 2m.	-lax ~ -x	Sg. 3m.	-le
		f.	-liš ~ -š	f.	-la
Pl. 1c.	-lah ~ -h	Pl. 2m.	-lxun	Pl. 3m.	-lun
		f.	-lxen	f.	-len

Adding the suffixes to the inflected forms of the present and perfect causes the word stress to move to the following syllable. In an unstressed syllable *ō* is replaced by *a*, *ī* by *i*; in turn unstressed *a*, when receiving the stress, is replaced by *ō*, e.g. *nōška* + -*le* → *naškōle* 'she kisses him'. In the plural the final *n* assimilates to the initial *l* of the suffix to yield *ll*.

'kiss'	Present	+ -le	Perfect	+ -le
Sg. 3m.	*nōšek*	*našekle*	*inšek*	*nšīkle*
Sg. 3f.	*nōška*	*naškōle*	*nšīka*	*nšikōle*
Pl. 3m.	*nōškin*	*naškille*	*nšīkin*	*nšikille*
Pl. 3f.	*nōškan*	*naškalle*	*nšīkan*	*nšikalle*

As shown on p. 343, the 2nd and 1st persons are arrived at by prefixing *č-* (2nd person) or *n-* (1st person) to the above forms.

Verb with Dative Pronominal Suffixes

The pronominal suffixes with *l-* shown above express a dative pronominal object. Since in the two new tenses, present and perfect, they also express an accusative object the two cannot be distinguished, e.g. *ṭaꜥenle* = (1) 'he carries him'; (2) 'he carries to him/for him'. In the two old tenses, however, *l*-suffixes always express a dative object. Final -*θ* and final -*n* assimilate to *l-* to yield *ll*. The vowel *u* of the subjunctive is replaced by *o* under stress.

Order of Elements

The preferred word order is SVO.

Table 16.7   Verb with dative pronominal suffixes

'open'		Past	+ -le	Subjunctive	+ -le
Sg.	1c.	faθhiθ	faθhille	nifθuḥ	nifθohle
Pl.	1c.	faθhinnaḥ	faθ°ḥlaḥle	nifθuḥ	nifθohle
Sg.	2m.	faθhič	faθhičle	čifθuḥ	čifθohle
	f.	faθhiš	faθhišlu (!)	čifθuḥ	čifθuhlu (!)
Pl.	2m.	faθhičxun	faθ°ḥčulle	čfuθhun	čfuθhulle
	f.	faθhičxen	faθ°ḥčalle	čfuθhan	čfuθhalle
Sg.	3m.	ifθaḥ	fθahle	yifθuḥ	yifθohle
	f.	faθhaθ	faθhalle	čifθuḥ	čifθohle
Pl.	3m.	ifθaḥ	faθhulle	yfuθhun	yfuθhulle
	f.	ifθaḥ	faθhalle	yfuθhan	yfuθhalle

Eastern Neo-Aramaic

Eastern Neo-Aramaic (ENA) comprises an as yet unknown number of languages and dialects which, until the beginning of our century, were spread over an enormous territory covering southeastern Turkey, northern Iraq, northwestern Iran and, detached from the bulk of ENA, the territory of Mandaic in the Shaṭṭ el-'Arab, which is divided between Iraq and Iran. Apart from Mandaic, most ENA languages were situated within the Kurdish language area in which they formed larger or smaller language islands; only the northernmost languages were situated in a Turkish (Azeri)-speaking area. Apart again from Mandaic, whose speakers adhere to the Mandean religion, ENA languages are spoken by Christians and Jews.

Unfortunately, practically all ENA-speaking groups have been subjected to severe religious persecution since the beginning of the twentieth century. As a result, few ENA speakers still live in their original homeland anywhere in the Middle East. The large majority have been turned into refugees and are dispersed over five continents. The Iraqi and Iranian Jews are safe in Israel but their ENA speech is already in severe danger of extinction. All taken together, the future is very dark for the ENA languages, and the greatest effort has to be made to investigate as many of them as possible while they are still to be found.

Hoberman (1989: 3ff.) divides ENA into three main groups: (1) Ṭuroyo (with Mlaḥsô); (2) Northeastern Neo-Aramaic (NENA); (3) Mandaic. Ṭuroyo is the westernmost ENA language; it is spoken in the Ṭūr 'Abdīn area in the Turkish province of Mardin, to the west of the Tigris river. The language of Mlaḥsô, now virtually extinct, was spoken even further to the northwest, in the vicinity of Diyarbakir. Ṭuroyo and Mlaḥsô are quite distinct from all ENA languages east of the Tigris. Whereas both Ṭuroyo and Mandaic comprise small language areas with only minor dialectal differentiation, NENA is the cover term for an amazing variety of languages and dialects, many of which are still unexplored or even undiscovered. There are, within the NENA group, many varieties which are not

mutually comprehensible, so that some of the NENA dialect subgroups should perhaps be set up as different languages. Interestingly enough, one of the main divisions in NENA runs along religious rather than geographical lines. Whereas in the western part of Northern Iraq the ENA dialects of the Christians and Jews are relatively close and mutually comprehensible, they become less and less so as one moves to the east. In Iran the respective NENA speech of Christians and Jews of the same town (e.g. Urmi, Sanandaj) was, to all intents, mutually unintelligible.

Among the several adstrate/superstrate languages which have influenced the ENA languages, Kurdish is the most important. National languages such as Persian in Iran, Turkish in Turkey and Arabic in Iraq, have exercised considerable influence, especially in the lexicon. Regional languages, such as Azeri in Iranian Azerbaijan and Arabic in southeastern Turkey, have also contributed to the complex structure of present-day ENA languages.

I am indebted to Simon Hopkins who contributed the Kerend data quoted in this chapter. He also read the whole text and suggested many important improvements. It goes without saying that the responsibility for all remaining imperfections is entirely mine.

Phonology

Consonants

p b	t d		k g	q (uvular)		(ʾ)
	ṭ (ḍ)					
		č ǧ				
f v	θ δ		x γ		ḥ ʿ	h
	(δ̣)					
	s z	š ž				
	ṣ					
m	n (ṇ)					
	l (ḷ)					
	r (ṛ)					
w		y				

Ṭuroyo exhibits a rather conservative consonant system as shown above (rare phonemes are in parentheses, the "emphatic" consonants – marked by a subscript dot – are velarized).

ḍ and *δ̣* occur mostly in loans from Arabic and are not distinguished by all speakers. *ʾ* is distinctive only word internally and it is rare; word initially it is an automatic juncture marker. *ṇ*, *ḷ*, and *ṛ* occur in verb inflection as a result of the assimilation of stem-final -*r* to suffix-initial *n*, *l* or *K*, e.g. **komăr-no* → *komănno* 'I say', **mĭr-le* → *mĭlle* 'he said', **mĭr-Ke* → *mĭrre* 'they said'.

In Middle Aramaic each of the six stops *p, b, t, d, k, g* was split into two positional variants (allophones), an initial, postconsonantal and geminate one con-

tinuing the older stop and a postvocalic one yielding the corresponding fricative, i.e. *p̄, b̠, t̠, d̠, k̠, ḡ*. The resulting twelve consonants later acquired phonemic status. They have been preserved rather well in Ṭuroyo, as can be seen below. (The diachronic/synchronic symbols *p̄/f, t̠/θ, d̠/δ, k̠/x, ḡ/γ* denote the same sound.)

Middle Aramaic >	Ṭuroyo	Examples			
*p	>	f	*pāṭā >	foθo	'face' (noun)
*p̄	>	f	*mawlep̄>	molĭf	'he teaches'
*b	>	b	*brīṭā >	briθo	'world'
*b̠	>	w	*ḥārʾb̠īn >	ḥŭrwi	'they perish'
*t	>	t	*taʿlā >	tăʿlo	'fox'
*t̠	>	θ	*āṭē >	oṭe	'he comes'
*d	>	d	*deb̠šā >	dăwšo	'honey'
*d̠	>	δ	*ed̠nā >	ăδno	'ear'
*k	>	k	*karmā >	kărmo	'vineyard'
*k̠	>	x	*bāk̠ē >	boxe	'he weeps'
*g	>	g	*gab̠rā >	găwro	'man'
*ḡ	>	γ	*reḡlā >	răγlo	'foot'

Middle Aramaic *b̠, which may have been pronounced [v] originally, appears as *w* in Ṭuroyo, but as *v* in Mlaḥsô. *p* and *p̄* have been collapsed into *f*. Otherwise all the the fricatives resulting from the split of *p, b, t, d, k, g* have been preserved in Ṭuroyo, whereas in Mlaḥsô *t̠* and *d̠* have been shifted to *s* and *z*, e.g. Mlaḥsô *ose* 'he comes', *ezno* 'ear'. The pharyngal fricatives, voiceless *ḥ* and voiced *ʿ*, have been preserved both in Mlaḥsô and Ṭuroyo.

A few consonants were introduced by loanwords from Turkish, Kurdish and Arabic, such as *č, ǧ* and *ž*.

As one moves from Ṭuroyo eastward into the domain of NENA the following simplifications and/or modifications of the consonant system occur:

1 *f* (< *p/p̄*) shifted back to *p*.
2 *θ* and *δ* were retained in some dialects but shifted back to *t* and *d* in the majority of the dialects. More rarely (e.g. in the dialect of the Jews of Zaxo) they shifted to *s* and *z*. In the Jewish dialects of Azerbaijan there is an asymmetrical development *θ > l, δ > d*; in Persian Kurdistan both *θ* and *δ* shifted to *l*. In the dialects of Tiari and Txuma *δ* was retained but *θ* shifted to *š* in many instances.
3 *ḥ* was merged with *x*, except for the westernmost NENA dialects (Hertevin group) where *x* was merged with *ḥ*. *ʿ* shifted to *ʾ* and yielded *Ø* in some dialects. *γ* did not usually survive but may be represented by *ʾ/Ø*, presumably after an intermediate change to *ʿ*.

4   *k* and *g* are palatalized and in some dialects became plain palatal stops [c],
[ɟ]. In Christian Urmi these palatal stops shifted to *č* and *ǧ*, while *č* and *ǧ* in
loanwords shifted to *ts* and *dz*. Again in Christian Urmi *q* was fronted to *ḳ*
[ḳ].

Neo-Mandaic has preserved all the six fricative consonants resulting from the
earlier split: *f*, *v*, *θ*, *δ*, *x*, *γ*. Middle Aramaic *ḇ* has yielded *v*. The pharyngeals have
been lost, ʿ yielding Ø in all positions, and *ḥ* merging with *h* (not with *x* as in
NENA).

Vowels

Mlaḥsô and Ṭuroyo
The Mlaḥsô vowel system is considerably more conservative than that of Ṭuroyo.
In Mlaḥsô there are six vowels: *i*, *u*, *e*, *o*, *a*, *ə*. The first five vowels can occur in
all types of syllables. The status of *ə* is not yet completely clear. It occurs only in
stressed non-final syllables, e.g., the definite article for both masculine and femi-
nine singular: *ə́-gavro* 'the man', *ə́-brato* 'the daughter'. The "tense" vowels *i*, *u*,
e, *o*, *a* are close to the five IPA cardinal vowels. The only "lax" vowel, *ə*, is always
short. The tense vowels are long in syllables carrying the main stress, long to half-
long in syllables carrying secondary stress and half-long to short in unstressed syl-
lables. The phonetic vowel length is independent of openness or closedness of the
syllable, e.g. *dozo* [doːˈzoː] 'maternal uncle', *doḥlo* [doːħˈloː] 'she fears'.
    Ṭuroyo has a more evolved system of five tense and three lax vowels:

i		u		ĭ		ŭ
	e	o				
	a				ă	

The tense vowels are usually phonetically long in syllables carrying main stress,
long to half-long in syllables carrying secondary stress and half-long to short in
unstressed syllables; in unstressed word-final position they are usually short. The
three lax vowels are always short. The phonetic values are:

[iː]		[uː]		[ɪ]		[ʊ]
	[eː]	[oː]				
	[aː]				[æ]	

In Ṭuroyo, if a syllable is closed through a morphological process such as deriva-
tion or inflection, a tense vowel is replaced by a lax vowel, whereas in Mlaḥsô no
such change occurs. Note that word stress, unless otherwise indicated, falls on the
last syllable in Mlaḥsô but on the second to last syllable in Ṭuroyo (see p. 353).

	Mlaḥsô	Ṭuroyo	
*i	yarixo	yarixo	'long (m.)'
	yarixto	yarĭxto	'long (f.)'
*u	zʿuro	zʿuro	'small (m.)'
	zʿurto	zʿŭrto	'small (f.)'
	mun	mĭn	'what?'
*e	kefo	kefo	'stone'
	domex	domĭx	'he sleeps'
	doméxno	domăxno	'I sleep'
*o	nofeq	nofĭq	'he comes out'
	nofqi	nĭfqi	'they come out'
*a	zaben	mzabĭn	'he sells'
	zabno	mzăbno	'she sells'

NENA and Neo-Mandaic

The most frequent vowel system found in NENA is identical with the one described for Ṭuroyo (except for diachronic correspondences, see p. 352), namely: i, u, e, o, a, ĭ, ŭ, ă, with similar phonetic realizations and similar rules for vowel length. The lax vowels ĭ and ŭ may be phonetically closer to [e] and [o] than to [ɪ] and [ʊ] respectively, in which case they may be written ĕ, ŏ. Tense a [aː] is more open and retracted than lax ă [æ]; in some dialects (e.g. Hertevin, NENA dialects of Iranian Kurdistan) it is back [ɑː], creating a marked contrast [æ] : [ɑː], reminiscent of Persian. Note in Hertevin:

kpina   'hungry (m.)'
kpĕnta   'hungry (f.)'

ʾămuqa   'deep (m.)'
ʾămŏqta   'deep (f.)'

beʾe   'eggs'
bĕʾta   'egg'

ărmone   'pomegranates'
ărmŏnta   'pomegranate'

ḥwara   'white (m.)'
ḥwărta   'white (f.)'

In the scholarly literature there are many divergent and complex practices for writing the vowels of NENA languages and dialects. For the present chapter, however, tense vowels are always noted as i, u, e, o, a etc., and lax vowels always as ĭ, ŭ, ĕ, ŏ, ă etc.

Diachronic Correspondences

1   In Ṭuroyo the old diphthongs *ăw* and *ăy* have been preserved while in the majority of NENA dialects and in Neo-Mandaic they have been monophthongized and merged with *o* and *e*. Examples: Ṭuroyo *băyto*, Hertevin *beta*, Neo-Mandaic *beθa* 'house'; Ṭuroyo *măwto*, Hertevin *mota* 'death'. In Christian Aradhin, *ăy* has yielded an open /ɛ/ which contrasts with /e/, e.g. *bɛθa* ['bɛːθa] 'house' vs. *beta* ['beːta] 'egg', while *ăw* has been preserved: *măwta* 'death'.

2   One of the most characteristic features distinguishing Ṭuroyo and Mlaḥsô from the remaining ENA languages is the shift of old **ā* to *o* [oː], e.g. Ṭuroyo *ḥoze*, but Hertevin *ḥaze*, Christian Aradhin *xaze*, Neo-Mandaic *hazi* 'he sees'. In some NENA dialects the phonetic realization of *a* is a back and sometimes even rounded vowel: [aː] ~ [ɒː] ~ [ɔː], however, in closed syllables it is replaced by *ă* [æ ~ a] whereas in Ṭuroyo *o* in closed syllables is mostly replaced by *ŭ* ~ *ĭ*, e.g. *ḥŭzyo* ~ *ḥĭzyo* but ENA *ḥăzya*, *xăzya*, Neo-Mandaic *hăzya* 'she sees'.

3   In some NENA dialects the monophthongization of *ăy* and *ăw* to *e* and *o* (see 1 above) has pushed older *e* and *o* to *u* and *i*. In Christian Urmi we find *beta* 'house', *mota* 'death', but *tili* 'he came', *kipa* 'stone', *kuma* 'black', *axuna* 'brother' (cf. Hertevin *beta*, *mota*, *tele*, *kepa*, *koma*, *ăhona*). Older *u* has become *ü* [yː] in some dialects, e.g. Hassana *xăbüša* 'apple' (cf. Tkhuma *xăbuša*). In the northernmost Christian dialects of Iranian Azerbaijan (e.g., Urmi, Salamas) older *i* and *u* have been diphthongized to *iy* [ɪj] and *uy* [ʊj] and in some dialects the glide element of these new diphthongs has become a spirant, yielding [ɪç] and [ʊx]. Some instances of a similar process are also found in Neo-Mandaic, e.g. *moxta* (< **mōta* < *mawtā*) 'death'.

"Synharmonism"
In some of the northernmost NENA dialects the two velarized consonants, *ṭ* and *ṣ*, tend to spread their velarization over the whole syllable or, more frequently, the whole word. In the Jewish and Christian dialects of Persian Azerbaijan not only all the consonants in a velarized ("flat" or "hard") word become more or less velarized but all the vowels have allophones which are lowered, retracted and/or centralized. This synharmonism or "flatting" is a long component since the phonemic contrast no longer resides in a single segment but in the whole word. Thus in the Jewish dialect of Persian Azerbaijan the contrast between the words for 'she says' and 'wool' lies in the flatting, marked by a raised +, of the second word: *ămra* vs. *⁺ămra*.

In dialects where flatting or synharmonism exists, the whole vocabulary and all morphological forms are divided into two categories – they are either "flat" or "plain." The presence of a velarized consonant (*ṭ* or *ṣ*) in the ancestor form of a word is not the only possible factor inducing flatness. It can also be caused by an original pharyngeal *ˤ. The examples *ămra* 'she says' and *⁺ămra* 'wool' cited

above reflect Middle Aramaic *āmrā* and *ʿamrā* respectively. Similarly *ălpa* 'thousand' goes back to *alpā* but *⁺ālma* 'people' comes from *ʿālmā*. Another source for flat words is borrowings from Turkish and Kurdish, e.g. in the Jewish dialects of Persian Azerbaijan (Garbell 1965: 34) *pul* 'fall!' (imperative) vs. *⁺pul* 'stamp' (from Turkish *pul* 'stamp'). For the variety of Modern Assyrian which he describes, Tsereteli (1978: 36) states that the realization of *ṭ* is "abruptive," that is ejective.

Word Stress

Nouns are still stressed on the last syllable in Mlaḥsô and in the Jewish NENA dialects of Iran and eastern Iraq but in the majority of ENA languages stress has shifted to the penultimate (stress indicated by boldface): Mlaḥsô *gavro*, but Ṭuroyo **ğăwro** 'man'; Jewish Azerbaijan **gorŭ**, but Christian Urmi **gora**, Neo-Mandaic **găvra** 'man'. The same is true for the original participles which now form the basis of verb inflection (see Verbs, p. 359): Mlaḥsô **ḥoze**, Jewish Azerbaijan *xaze*, but Ṭuroyo **ḥoze**, Hertevin **ḥaze**, Hassana *xaze*, Neo-Mandaic **hazi** 'he sees'; Mlaḥsô **ḥozyo**, Jewish Azerbaijan and Kerend **xăzyŭ** but Ṭuroyo **ḥŭzyo**, Hertevin **ḥăzya**, Hassana **xăzya**, Neo-Mandaic **hăzya** 'she sees'.

Penultimate stress (where it occurs) is the rule also when suffixes are added, e.g. Ṭuroyo **ṭuro**, Christian Aradhin **ṭura** 'mountain' but Ṭuroyo **ṭurone**, Christian Aradhin **ṭurane** 'mountains'. In verbal forms based on original participles stress cannot go beyond the original participle form, regardless of how many suffixes are added, e.g. Ṭuroyo **ḥozeno** 'I (m.) see', **ḥozenole** 'I (m.) see him', **ḥozewăynole** 'I (m.) used to see him'.

In most, if not all, NENA languages word stress has become phonemic on the morphological level, e.g. Ṭuroyo **malĭm** 'he collects' vs. **malĭm** 'collect!'; Jewish Azerbaijan **zdelu** 'they feared' vs. **zdelu** 'their fear'. In the Jewish dialect of Kerend (Iranian Kurdistan) we find, e.g., **twirŭ** 'broken (m.)' vs. **twirŭ** 'it (f.) got broken', **tori** 'my bull' vs. **tori** 'I broke', **zilex** 'we have gone' vs. **zilex** 'we went'.

In the present study, when the position of word stress deviates from the general rule, it is marked by ´ over the stressed vowel. However, in the verbal paradigms stress is marked here throughout in order to avoid ambiguity.

Stress Groups

In all NENA languages collocations of two, rarely three words which are closely bound syntactically can form stress groups (indicated here by = connecting the two words). In stress groups the second word loses its word stress, and the main stress of the collocation comes to be on the last syllable of the first word. Stress groups most frequently occur with numerals + counted nouns, e.g. Christian Aradhin *ṭĭllīθ=năqle*, Ṭuroyo (Midən) *tloθo=năqlawoθe* 'three times', and with negations and a following verb or noun, e.g. Jewish Amedi *lă=xĭlle*, Ṭuroyo *lo=xile* 'he did not eat', Jewish Amedi *čŭ=mĭndi*, Ṭuroyo *tŭ=mede* 'nothing'.

Morphology

Pronouns

Table 16.8 **Independent personal pronouns,**
Mlahsô, Ṭuroyo, Hertevin and Hassana

		Mlahsô	Ṭuroyo (Midyat)	Hertevin	Hassana
Sg.	1c.	ono	ŭno	ana	ana
Pl.	1c.	elə́na	ä̆hna	ä̆hnä̆h	ä̆xni
Sg.	2c.	hat	hä̆t	ahĕt	ahĭt
Pl.	2c.	hátun	hatu	ä̆hnitŏn	ä̆xnütĭn
Sg.	3m.	híye	huwe	ahu	awa
	f.	híya	hiya	ahi	aya
Pl.	3c.	híyen	hĭnne	ä̆hni	ani

Table 16.9 **Independent personal pronouns,**
Chr. Mangeš, Chr. Urmi, J. Azerbaijan, Neo-Mandaic

		Chr. Mangeš	Chr. Urmi	J. Azerbaijan	Neo-Mandaic
Sg.	1c.	ana	ana	anä̆	ä̆n ~ ä̆na
Pl.	1c.	ä̆xni	ä̆xnän	ä̆xnän	ä̆ni
Sg.	2c.	m. ayĭt, f. ayä̆t	ä̆t	ä̆t	ä̆t
Pl.	2c.	ä̆xnutĭn	ä̆xtün	ä̆txün	m. ä̆ttŏn, f. ä̆ttĕn
Sg.	3m.	awa	ä̆w	o	hax
Sg.	f.	aya	ä̆y	o	hax
Pl.	3c.	ani	aniy	oyne	hä̆nni or
					m. hä̆nnŏx,
					f. hä̆nnĕx

Only a minority of languages (Mlahsô, Ṭuroyo and Hertevin) have preserved archaic 3rd person pronouns (cf. Middle Aramaic *hū, hī, hennōn/hennēn*). In the remaining languages their function has been taken over by the demonstrative pronouns (see p. 354). In Hertevin all the forms have initial *a-/ă-*. In Mlahsô the pronoun of the pl. 1 has been replaced by *elə́na* 'to us'. For details see Jastrow 1990 and Hoberman 1990.

Demonstrative Pronouns
Mlahsô and Ṭuroyo in the west and Neo-Mandaic in the southeast have two sets of demonstrative pronouns to distinguish between the categories of closeness ('this') and remoteness ('that'); most NENA languages have only a single set ('this/that').
   In the NENA languages the most frequent forms of the demonstratives (close

Table 16.10   Demonstrative pronouns

		Mlaḥsô	Ṭuroyo	Kerend	Neo-Mandaic
'this'	Sg. m.	áno	hano	ăy ~ ăyă	a ~ aha ~ ahăyye ~ hăy
	f.	ózi	haθe		
	Pl. c.	áne	hani	ăy ~ ăyă	hănni ~ ănni ~ ăhni
'that'	Sg. m.	áwo	hawo	o ~ ăwă	hax ~ ax
	f.	áyo	hayo		
	Pl. c.	ánek	hanĭk	o ~ ăwă	hănnŏx ~ hănnĕx

and remote being the same) are: sg. m. *awa ~ ăw ~ o*, sg. f. *aya ~ ăy ~ e*, pl. c. *ani ~ ăn*. Kerend has reintroduced a distinction by assigning *ăy* to closeness and *o* to remoteness, dropping gender and number distinctions.

Interrogative Pronouns

	Mlaḥsô	Ṭuroyo	Hertevin	Chr. Urmi	Kerend	Neo-Mandaic
'who?'	*man*	*măn*	*măn*	*măn ~ maniy*	*mắni*	*măn*
'what'	*mun*	*mĭn*	*mahi ~ me*	*mu ~ mudiy*	*ma*	*ma ~ mo ~ mu*

Pronominal Suffixes

The pronominal suffixes are joined to nouns to express possession, to prepositions to express relation and to verb forms with copulative inflection to express a pronominal object. Before the suffixes the nominal ending *-o ~ -a* is dropped. (Examples: *emo* 'mother', *beta ~ beθa ~ bela* 'house', *baba* 'father'.)

Table 16.11   Pronominal suffixes, Mlaḥsô, Ṭuroyo, Hertevin and Hassana

		Mlaḥsô	Ṭuroyo	Hertevin	Hassana
Sg.	1c.	emi	emi	beti	beti
Pl.	1c.	eména	emăn	betăn	betăn
Sg.	2m.	emox	emŭx	betŏḥ	betŭx
	f.	emex	emăx	betăḥ	betăx
Pl.	2c.	emékun	emayxu	betehŏn	betoxŭn
Sg.	3m.	emav	eme	betĕw	betăḥ
Sg.	f.	ema	ema	beto	betăḥ
Pl.	3c.	emen	emayye	betehĕn	betehĭn

Relational Morpheme

The pronominal suffixes (see above) can be joined to a special morpheme expressing relation: *diδ-* in Ṭuroyo, *did-* in Hertevin and Jewish Azerbaijan, *diy-* in Hassana and Christian Urmi, *ald-* in Neo-Mandaic. Thus, in Ṭuroyo, *diδi* means 'mine, the one belonging to me': *băytŭx răb me diδi-yo* 'your (m.) house is larger

Table 16.12   Pronominal suffixes, Chr. Urmi, J. Azerbaijan, Kerend and Neo-Mandaic

		Chr. Urmi	J. Azerbaijani	Kerend	Neo-Mandaic
Sg.	1c.	betiy	beli	beli	beθe
Pl.	1c.	betăn	belăn	belăn(i)	beθăn
Sg.	2m.	betŭx	belŏx	belox	beθăx
	f.	betăx	belăx	belăx	beθĕx
Pl.	2c.	betoxŭn	belxŭn	belăxun	m. beθxŏn, f. beθxĕn
Sg.	3m.	betu	belew	belef	beθi
Sg.	f.	beto	belaw	belăf	beθa
Pl.	3c.	beté	belu	belu	beθu

than mine'. Foreign loans which have not been adapted to ENA morphology (i.e. lack the nominal ending -*o*, -*a*) usually do not take pronominal suffixes; these are instead suffixed to the relational morpheme, thus Hertevin *diwăn didĕw* 'his council', Ţuroyo *wăxt diδi* 'my time'. In several dialects the relational morpheme + suffix produced a new, enlarged series of suffixes, which in turn can also be suffixed to nouns of the inherited stock, e.g. Ţuroyo *u=wăxtăyδi* 'my time' (with definite article, see p. 357), Mlahsô *ţaflézav* 'his child', Txuma *bábĕdye* 'his father', Neo-Mandaic *xĕzmădde* 'my service'.

Nouns

Nominal Endings
Original Aramaic nouns have the ending -*o* (Mlahsô, Ţuroyo) or -*a* (remaining ENA languages) in the masculine, -*to* ~ -*θo* or -*ta* ~ -*θa* in the feminine. In the Jewish NENA dialects with final stress (see p. 353) the ending always has the lax vowel -*ă*. Examples:

Mlahsô	Ţuroyo	Chr. Aradhin	J. Azerbaijan	Kerend	Neo-Mandaic	
tawro	*tăwro*	*tăwra*	*toră*	*toră*	*tora*	'ox'
turto	*tĭrto*	*tăwĭrta*	*tŏrtă*	*tortă*	*turta*	'cow'

Plural
The most common plural ending is -*e*, (Mangeš -*ĭ*, Christian Urmi -*i*) for the masculine, Ţuroyo (Midyat) -*oθo*, Ţuroyo (villages) -*oθe*, NENA -*aθa* ~ -*ata* ~ -*ale* for the feminine. Examples: Ţuroyo *noše*, Hertevin *naše*, Jewish Azerbaijan *naše*, Christian Urmi *naši* 'men, people'; Ţuroyo (Midyat) *tăwroθo*, Ţuroyo (villages) *tăwroθe*, Christian Aradhin *tăwraθa*, Neo-Mandaic *taraθa* 'cows', Hertevin *băhtata* 'women', Kerend *yomale* 'days', *ăxonăwale* 'brothers'.

Another frequent ending of the masculine plural is Ţuroyo -*one*, NENA -*ane*, Neo-Mandaic, -*ana* ~ -*ani*. Examples:

Ṭuroyo	Hertevin	Chr. Aradhin	Chr. Urmi	Neo-Mandaic	
ṭuro	*ṭura*	*ṭura*	*⁺ṭura*	*ṭura*	'mountain'
ṭurone	*ṭurane*	*ṭurane*	*⁺ṭurani*	*ṭurana*	'mountains'

In Neo-Mandaic, *-ana ~ -ani* has been generalized as the masculine plural ending, e.g. *tărmida* 'Mandean priest', pl. *tărmidana ~ tărmidani*.

A feminine noun may have a masculine plural: Ṭuroyo *bîḥto*, pl. *beᶜe*, Hertevin *bĕᵓta*, pl. *beᵓe* 'egg'. There are also feminine nouns without an overt feminine ending in the singular; they usually have a feminine plural, e.g. Ṭuroyo *ṣăwᶜo* (f.), pl. *ṣăwᶜoθe*, Hertevin *ṣĕpᵓa* (f.), pl. *ṣĕpᵓata*, Chr. Urmi *⁺ṣippa* (f.), pl. *⁺ṣippata* 'finger'. In all ENA dialects there is a small number of nouns with an irregular plural, e.g.:

Ṭuroyo	Hertevin	Chr. Aradhin	J. Azerbaijan	Neo-Mandaic	
ăbro	*ĕbra*	*bruna*	*bronă*	*ĕbra*	'son'
ăbne	*ĕbne*	*brune ~ bnune*	*bronawe*	*ĕbrana*	'sons'
šato	*šeta*	*šeta*	*šată*	*šĕtta*	'year'
išne	*šĕnne*	*šinne*	*šinne*	*ĕšna*	'years'

Definiteness
Ṭuroyo has developed a full-fledged definite article with different forms for sg. m., sg. f. and pl. c. probably coming from shortened forms of the independent personal pronouns (see p. 354). It precedes the noun and forms a stress group (see p. 353): Ṭuroyo *u=tăwro* 'the ox', *i=tîrto* 'the cow', *ăt=tăwre* 'the oxen', *ăt= tăwroθe* 'the cows'. Mlaḥsô has a similar system with *ə=* (sg. m. and f.) and *a=* (pl.). The Jewish dialects of Iranian Kurdistan, on the other hand, use a Kurdish suffix *-ăke*: Kerend *gparticoră* 'man', *gorăke* 'the man'. In some ENA languages there is a tendency to use the demonstratives (see p. 354), often in their shortened forms *ăw ~ o, ăy ~ e, ăn*, also for definiteness, e.g. Hertevin *o zalama* 'that man' or 'the man', but this is not a full-fledged article. Most importantly, definiteness of a verbal object is expressed by adding a pronominal object suffix (see p. 370) to the inflected verb, e.g. Hertevin *hazĕn* 'I see', *hazĕn (ha) tora* 'I see an ox' but *hazĕnne tora* 'I see **the** ox' (literally 'I see him, ox'), – cf. Jastrow 1990: 97ff.

Indefiniteness is frequently expressed by means of the numeral 'one': Ṭuroyo *ha=găwro*, Mangeš *xa=gora* 'a man'. Kerend has unstressed *-e ~ -ek*, borrowed from Kurdish, in this function, e.g. *xă goră-e ~ xă goră-ek* 'a man'. Neo-Mandaic has borrowed the Persian indefinite marker *-i*: *găvra* 'man', *găvri* 'a man'.

Annexation (Genitive)
Annexation of nouns is based on a Middle Aramaic construction with the morpheme *d-* intervening between the two nouns, e.g. Syriac *brā d-malkā* 'the son of the king'. In most ENA languages the element *d-* is attached to the first noun instead, the final vowel of which may be raised, e.g. Hertevin *ĕbra* 'son' but *ĕbrĕd mălka*, Jewish Azerbaijan *bronă* 'son' but *bronit ⁺šultană* 'the son of the king'.

Voice assimilation of the final -*d* is widespread. Hertevin frequently applies total assimilation: *ĕbrĕm mălka*. In the Jewish dialects of Iranian Kurdistan the two nouns are simply juxtaposed: Kerend *belă ăxoni* 'my brother's house'. Younger speakers generally use the Persian *ezăfe* morpheme -*e*, e.g. Kerend *belắ-e ăxoni* (same meaning).

Loanwords
In all ENA languages some loanwords were completely assimilated. In Ṭuroyo the word *šuγlo* 'work, affair' comes from Arabic *šuγl* (same meaning) but is synchronically an Aramaic word since it has the masculine ending -*o* and forms an Aramaic plural *šuγlone*. The majority of loanwords, however, were only partly adapted to Aramaic phonology and morphology. In Ṭuroyo as well as in most NENA dialects, partly adapted Kurdish feminine nouns receive a singular ending -*e* reflecting the Kurdish fem. oblique ending -*ē*. The plural has a suffix -*ăt* derived from the Arabic plural morpheme -*ăt*. Thus the Kurdish feminine noun *čīrōk* 'story' is borrowed into Ṭuroyo as *čiroke*, pl. *čirokăt*. Masculine nouns are borrowed without such modifications, e.g. *sōz* 'promise' from Turkish *söz* 'word'.

Numerals

Table 16.13   Numerals 1–10

	Ṭuroyo (Midyat) m.	f.	Hertevin c.	Chr. Urmi c.	Neo-Mandaic c.
1	ḥa	ḥδo	ḥa	xa	hda
2	tre	tărte	te	tre	tre(n)
3	tloθo	tloθ	ṭlata	⁺ṭla	klaθa
4	ărbʿo	ărbăʿ	ărba	⁺arpa	ărba
5	ḥămšo	ḥămmĭš	ḥămša	xămša	ḥămša
6	ĭšto	šeθ	ĕšta	ĭšta	šĕtta
7	šăwʿo	šwăʿ	šoʾa	⁺šăva	šŏvva
8	tmĭnyo	tmone	tmănya	tmănya	tmănya
9	tĭšʿo	čăʿ	ĕčʾa	⁺ĭča	ĕčča
10	ʿăṣro	ḥṣar	ĕṣra	⁺ĭsra	ăsra

Some ENA languages have retained distinct masculine and feminine forms of the numerals for '1' to '10'. Thus in Ṭuroyo, there is *ḥămšo=yăwme* 'five days' from *yăwmo* (m.) 'day', but *ḥămmĭš=šabe* 'five weeks' from *šăbθo* (f.) 'week'. The Ṭuroyo dialect of Midən as well as many NENA dialects generalized the masculine forms. Only for '1' were distinct forms retained in some idioms, e.g. Midən *ḥa/ḥδo*, Mangeš *xa/xδa*. When counting, the longer masculine forms are used in all languages; in this function the monosyllabic numerals for 1 and 2 are blown up to *xaʾa*, *treʾe* in some NENA dialects. Hertevin uses the forms *ḥda, tĕrte* in counting but otherwise *ḥa, te*.

Table 16.14   Numerals 11–19

	Ṭuroyo	Hertevin	Mangeš	Neo-Mandaic
11	ḥδăḥṣăr	ḥdiʾĕssăr	xadĭssăr	hdăssăr
12	trăḥṣăr	treʾĕssăr	trĭssăr	trĕssăr
13	tloθăḥṣăr	ṭlataʾĕssăr	tĭltăssăr	klatăssăr
14	ărbăḥṣăr	ărbaʾĕssăr	ărbăssăr	ărbăssăr
15	ḥămšaḥṣăr	ḥămšaʾĕssăr	xămšăssăr	hămăssăr
16	ĭštăḥṣăr	ĕštaʾĕssăr	ĭštăssăr	šĕttăssăr
17	šwăḥṣăr	šoʾĕssăr	ĭšwăssăr	šŏvvăssăr
18	tmonăḥṣăr	tmanaʾĕssăr	tmanĭssăr	tmanăssăr
19	čăḥṣăr	ĕččaʾĕssăr	tĭšassăr	ĕččăssăr

Note: There is no longer a gender distinction.

Multiples of Tens and Hundreds

	Ṭuroyo (Midyat)	Hertevin	Neo-Mandaic
20	ʿĭsri	ĕsri	ĕsrin
30	tleθi	ṭlati	klaθin
40	ărbʿi	ărbi	ărbin
50	ḥămši	ḥămši	hămšin
60	ĭšti	ĕšti	šĕttin
70	šăwʿi	šoʾi	šŏvvin
80	tmoni	tmani	tmanin
90	tĭšʿi	ĕčʾi	ĕččin
100	mo	ma	ĕmma
200	maθe	trema	tren ĕmma
300	tloθmo	ṭĕllădma	klaθa ĕmma
400	ărbăʿmo	ărbĕʾma	ărba ĕmma
500	ḥămmĭšmo	ḥămmĕšma	hămša ĕmma
600	šeθmo	ĕššĕtma	šĕtta ĕmma
700	šwăʿmo	šăwwĕʾma	šŏvva ĕmma
800	tmonemo	tmanĕʾma	tmănya ĕmma
900	čăʿmo	ĕččĕʾma	ĕčča ĕmma

Thousands and Compound Numbers
'1000' is ălfo in Ṭuroyo, ălpa in most NENA dialects, '2000' Ṭuroyo tre=ălfo, Hertevin tre=ălpa etc. Compound numbers start with the highest number, e.g. Mangeš ărba ĭmma w ărbi w ărba '444'.

Verbs

Generalities
Verbal roots consist of three, more rarely of four consonants. "Weak" roots contain one of the "weak" consonants ʾ, w or y which don't always appear.

Of the six derivational classes or "stems" of Middle Aramaic only the three active stems (*peˁal, paˁˁel* and *afˁel*) have survived in most ENA languages. Ṭuroyo and Mlaḥsô are unique in retaining also the three passive stems (*eθpeˁel, eθpaˁˁal* and *ettafˣal*), although the evidence for *ettafˣal* in Mlaḥsô is weak. Neo-Mandaic has preserved the *eθpeˁel*, the evidence for an *eθpaˁˁal* is weak. In the remaining languages passivity is expressed periphrastically. In a number of NENA dialects the reflexes of *peˁal* and *paˁˁel* have been merged.

There is only one element of the Middle Aramaic verb system which has been preserved in all ENA languages: the imperative. Neo-Mandaic has preserved the old Semitic perfect but not the imperfect. New tenses have been developed by means of the originally active and passive participles, in some NENA dialects also by means of the verbal noun (infinitive). All ENA languages have at least two basic tenses: present and preterite, some have in addition perfect and/or continuous present. The verbal systems increase in complexity as one moves from west to east. Whereas Ṭuroyo and the westernmost NENA dialects have only present and preterite, most NENA dialects have present, preterite and perfect; in Iranian Azerbaijan they also have a continuous present. Neo-Mandaic, however, has only present and preterite. From the basic tenses are formed secondary tenses/moods: subjunctive, future and imperfect from the present, continuous imperfect from the continuous present, remote preterite from the preterite, remote perfect from the perfect etc.

There are three different types of inflection which we shall call predicative, ergative and copulative.

1   In the predicative inflection the verbal base is derived from an old participle (either active or passive) in the *status absolutus*; the inflectional suffixes are shortened forms of the independent personal pronouns.
2   In the ergative inflection the verbal base is also derived from an old participle in the *status absolutus*; the participle is historically passive and indicates the **patient** of the action. The **agent** is expressed by inflectional suffixes which consist of the preposition *l-* 'to, by' + pronominal suffixes.
3   In the copulative inflection the verbal base is derived from an old passive participle or a verbal noun, in either case reflecting an old *status emphaticus*. The subject is expressed by the copula (see p. 372) which is either joined enclitically or precedes or follows the base as a free form. The verbal noun is preceded by the preposition *b-* 'in' which is, however, omitted in a number of dialects.

In the following description of the verb all examples use the root *grš* 'to pull' although this root does not occur in all ENA languages and even less so in all derivational classes (stems). All data from Middle Aramaic have been marked with an asterisk * in order to distinguish them from the modern data.

Verb Derivation

The symbols ^{P}, ^{E} and ^{C} following a base indicate the type of inflection (^{P} = predicative, ^{E} = ergative, ^{C} = copulative). The Neo-Mandaic preterite which is a continuation of the Middle Aramaic "perfect" is not included in this description – see Preterite, p. 366.

Stem I active reflects old *peˁal* and in the Jewish dialects of Azerbaijan and Iranian Kurdistan also to *paˁˁel* since there the two stems have been very largely merged. In general, the inflectional bases reflect the old active participle for the present, the old passive participle for the preterite, the old passive participle in the *status emphaticus* for the perfect and the old verbal nouns for the continuous present. However, in Mlaḥsô the bases of the perfect and in Ṭuroyo those of the intransitive preterite reflect an old verbal adjective. Both Kerend and Ṭuroyo have different preterite bases for transitive and intransitive verbs. In Kerend the preterite of intransitive verbs has *griš* with unshortened vowel and predicative inflection. In Ṭuroyo it has *garǐš* (that is, the same basis, historically, which serves for the perfect in Mlaḥsô) with predicative inflection; in both Ṭuroyo and Kerend *grǐš* with shortended vowel and ergative inflection serves for the preterite of transitive verbs. The sg. m. bases are:

	Mlaḥsô	Ṭuroyo	Txuma	J. Azerbaijan	Kerend	Neo-Mandaic
Present:	*goreš*^{P}	*gorǐš*^{P}	*gariš*^{P}	*gariš*^{P}	*gărǐš*^{P}	*gareš*^{P}

	Mlaḥsô	Ṭuroyo	Txuma	J. Azerbaijan	Kerend
Preterite:	*griš*^{E}	*gariš*^{P}/*grǐš*^{E}	*grǐš*^{E}	*grǐš*^{E}	*griš*^{P}/*grǐš*^{E}

	Mlaḥsô	Txuma	J. Azerbaijan	Kerend
Perfect:	*gariš*^{P}	*griša*^{C}	*griš*^{P}/*griša*^{C}	*griša*^{C}

	Chr. Aradhin	Txuma	J. Azerbaijan
Cont. Pr.:	*graša*^{C}	*graša*^{C}	*garoše*^{C}

Stem I passive reflects the old *eθpeˁel* participle for the present (a formation that does not exist in the NENA dialects), the passive participle of *peˁal* for the preterite and the same participle in the *status emphaticus* for the perfect. Note the special case of Mlaḥsô which, for the preterite, employs the old *eθpeˁel* participle with ergative inflection.

Stem I passive:

	Mlaḥsô	Ṭuroyo	Kerend	Neo-Mandaic
Present:	*megreš*^{P}	*mǐgrǐš*^{P}		*mĕgrĕš*^{P}
Preterite:	*megreš*^{E}	*griš*^{P}	*griš*^{P}	
Perfect:	*griš*^{P}		*grišă*^{C}	

The actives of stems II and III reflect participles of old *paˁˁel* and *afˁel*, respectively, while the corresponding passives (restricted to certain dialects) reflect old *eθpaˁˁal* and *ettafˁal* participles. The inflectional bases of the present reflect the old active participles. The old passive participles have been collapsed with the active ones in Mlaḥsô and Ṭuroyo; thus, in Mlaḥsô and Ṭuroyo, the inflectional

bases of the present and the preterite are identical, the only difference between the two tenses residing in the type of inflection. East of Ṭuroyo (that is, in NENA proper) the inflectional bases of the preterite have been distinguished from the present by changing the stem vowel *a* into *u*. The old formative *m-* of the participle has been shed in some dialects.

Stem II active:

	Mlaḥsô	Ṭuroyo	Mangeš	Chr. Urmi	Neo-Mandaic
Present:	gareš^P	mgariš^P	mgariš^P	gariš^P	mgǎrrěš^P
Preterite:	gareš^E	mgariš^E	mguriš^E	guriš^E	
Perfect:				gǔrša^C	
Cont. Pr.:				garoše^C	

Stem II passive:

	Mlaḥsô	Ṭuroyo	Mangesh	Neo-Mandaic
Present:	mgareš^P	migariš^P		mgǎrraš^P
Preterite:	mgareš^E	mgariš^P	mǔgriš^P	

Stem III active:

	Mlaḥsô	Ṭuroyo	Chr. Urmi	Kerend	Neo-Mandaic
Present:	magreš^P	mǎgriš^P	mǎgriš^P	mǎgriš^P	mǎgrěš^P
Preterite:	magreš^E	mǎgriš^E	mǔgriš^E	mǐgriš^E	
Perfect:			mǔgriša^C		
Cont. Pr.:			magroše^C		

Stem III passive:

	Ṭuroyo	Kerend
Present:	mitǎgriš^P	
Preterite:	mtǎgriš^P	mǐgriš^P

Verb Inflection

Predicative inflection will be exemplified by (1) the active inflection of the present of stem I in a number of dialects and (2) the passive inflection of the present of stem I in Ṭuroyo and the preterite of stem I in Ṭuroyo and Kerend. The inflectional bases are reflexes of old participles in the *status absolutus*, and the inflectional suffixes hark back to shortened forms of the independent personal pronouns. For the 3rd persons the inflectional suffixes are Ø. Stress is marked consistently in the whole paradigm.

Ergative inflection will be exemplified by the preterite of stem I. The inflectional bases are derived from old passive participles in the *status absolutus*, and the inflectional suffixes can be analyzed as consisting of the preposition *l-* 'for, by' + pronominal suffixes. The **patient** is expressed by the verbal base and the **agent** by the ergative suffixes, e.g.: **griš li* 'pulled is he by me' → 'I pulled (him)' etc. Stress is marked consistently in the whole paradigm.

Word stress never goes beyond the inflectional base, thus Christian Urmi *griš̆lŭx, griš̆loxŭn*. Ṭuroyo has a unique pl. 3c. suffix *-Ke* which doubles the base final consonant: *griš̆le* 'he pulled' but *griš̆še* 'they pulled'. By assimilating *l-* of

Table 16.15 Predicative inflection, active

	Mlaḥsô	Ṭuroyo	Hertevin	Kerend	Neo-Mandaic
Sg. 1m.	goréšno	gorášno	gắršĕn	gắrĭšnă	garḗšna
Sg. 2m.	goršét	gŭršĭt	gắršĕt	gắršét	gắršĕt
Sg. 3m.	goréš	góriš	gárcš	gắriš	gáreš
Sg. 1f.	goréšno	gŭršóno	gắršăn	gắršắn(a)	garḗšna
Sg. 2f.	goršát	gŭršắt	gắršăt	gắršắt	gắršĕt
Sg. 3f.	goršó	gŭršo	gắrša	gắršắ	gắrša
Pl. 1c.	goršína	gŭršína	gắršaḥ	gắršéx(in)	gắršḗnni
Pl. 2c.	goršítun	gŭršútu	gắršítŏn	gắršétun	gắršéttŏn
Pl. 3c.	gorší	gŭrši	gắrši	gắršı́	gắršĕn

Table 16.16 Predicative inflection, passive

	Ṭuroyo	Ṭuroyo	Kerend
Sg. 1m.	mĭgrĭ́šno	grĭ́šno	grĭ́šnă
Sg. 2m.	mĭgróšĭt	grĭ́šĭt	grĭ́šet
Sg. 3m.	mĭ́grĭš	griš	griš
Sg. 1f.	mĭgrošóno	grišóno	grĭ́šăn(a)
Sg. 2f.	mĭgróšăt	grĭ́šăt	grĭ́šăt
Sg. 3f.	migróšo	grĭ́šo	grĭ́šă
Pl. 1c.	mĭgrošína	grišína	grĭ́šex(in)
Pl. 2c.	mĭgrošútu	grišútu	grĭ́šetun
Pl. 3c.	mĭgróši	grĭ́ši	grĭ́ši

Table 16.17 Ergative inflection

		Mlaḥsô	Ṭuroyo	Hertevin	Mangeš	Chr. Urmi	Kerend
Sg.	1c.	grĭ́šli	grĭ́šli	grḗšli	grĭ́šli	grĭ́šliy	grĭ́šli
Pl.	1c.	grĭ́šlan	grĭ́šlăn	grḗšlăn	grĭ́šlăn	grĭ́šlăn	grĭ́šlăn
Sg.	2m.	grĭ́šlox	grĭ́šlŭx	grḗšlŏḥ	grĭ́šlŭx	grĭ́šlŭx	grĭ́šlox
	f.	grĭ́šlex	grĭ́šlăx	grḗšlăḥ	grĭ́šlăx	grĭ́šlăx	grĭ́šlăx
Pl.	2c.	grĭ́šlekun	grĭšxu	grḗšlehŏn	grĭ́šloxĭn	grĭ́šloxŭn	grĭ́šlăxun
Sg.	3m.	grĭ́šle	grĭ́šle	grḗšle	grĭ́šlĭ	grĭ́šli	grĭ́šle
Sg.	f.	grĭ́šla	grĭ́šla	grḗšla	grĭ́šla	grĭ́šla	grĭ́šla
Pl.	3c.	grĭ́šlen	grĭ́šše	grḗšle(hĕn)	grĭ́šle	grĭ́šlŭn	grĭ́šlu

the pl. 3c. suffix to the base final consonant the confusing of the sg. 3m. and pl.
3c. forms was prevented. In Hertevin these two forms are not distinguished con-
sistently since *grḗšle* is used along with *grḗšlehĕn* for the pl. 3c. Cf., however,
Christian Aradhin *grĭ́šle* (sg. m.) vs. *grĭ́šlε* (pl. c.).

Copulative inflection will be exemplified by the perfect of stem I. The inflec-
tional bases are derived from old passive participles in the *status emphaticus*,

while the inflectional morphemes derive from the copula (see p. 372). In many dialects they can either precede or follow the verbal bases as free forms or be suffixed to them.

Table 16.18   Copulative inflection

	Hassana	Txuma	J. Azerbaijan
Sg. 1m.	huwĭn griša ~ grĭšewĭn	iwĭn griša ~ grĭšawĭn	grišélen
Sg. 2m.	huwĭt griša ~ grĭšewĭt	iwĭθ griša ~ grĭšawĭθ	grišélet
Sg. 3m.	hule griša ~ grĭšele	ile griša ~ grĭšale	grišéle
Sg. 1f.	huwän grĭšta ~ grĭštewän	iwän grĭšta ~ grĭštawän	grištélän
Sg. 2f.	huwăt grĭšta ~ grĭštewăt	iwăθ grĭšta ~ grĭštawăθ	grištélăt
Sg. 3f.	hula grĭšta ~ grĭštela	ila grĭšta ~ grĭštala	grištéla
Pl. 1c.	huwŭx griše ~ grĭšewŭx	iwăx griše ~ grĭšewăx	grišélex
Pl. 2c.	huwütĭn griše ~ grĭšewütĭn	iθŭn griše ~ grĭšeθŭn	grišéletun
Pl. 3c.	hune griše ~ grĭšene	ile griše ~ grĭšele	grišélu

Whereas in some dialects the perfect has become a straightforward active tense – 'he has pulled' – in other dialects it has preserved some ambiguity as to voice; thus, in Txuma, grĭšale can mean 'he has pulled' but also 'he has been pulled'.

The inflection of the imperative is exemplified by the imperative of stem I. The predominant Middle Aramaic vocalization with an *o* vowel has been preserved except for Mlahsô and Ṭuroyo where the less frequent *a* has been generalized. In Kerend the plural ending *-mun* has been generalized from IIIy verbs.

	Mlahsô	Ṭuroyo	Hertevin	Mangeš	Chr.Urmi	Kerend
Sg. c.	graš	grăš	grŏš	grŏš	grŭš	grŭš ~ gŭrŭš
Pl. c.	grášun	grášu	grúšĕn	grášu	grúšŭn	grúšmun ~ gŭrŭšmŭn

Neo-Mandaic is unique in preserving gender distinction both in the singular and the plural:

Sg. m.	g'ṭŏl	Pl. m.	g'ṭŏlyon
f.	g'ṭul	f.	g'ṭĕlyĕn

The imperatives of stems II and III are derived from the inflectional bases of the present tense, thus showing an initial *m-*. Some NENA dialects have imperatives without initial *m-* in stem II. It is likely that *m-* has dropped here. In Ṭuroyo, the imperative singular is always stressed on the last syllable.

Stem	Mlahsô	Ṭuroyo	Hertevin	Chr. Aradhin	Chr.Urmi	Kerend
II Sg. c.	zabén	mzabăn	šadĕr	mbašĭl	⁺palĭṭ	zăbĭn
Pl. c.	zabénun	mzabénu	šădrŏn	mbăšlu	⁺pălṭŭn	zăbĭnmŭn
III Sg. c.	adméx	mănšăf	măhlŏp	măplĭx	măptĭx	măsxĭn
Pl. c.	adméxun	mănšefu	măhlupĕn	măp'lxu	măptĭxŭn	măsxĭnmŭn

Neo-Mandaic has preserved gender distinction only in the plural. Since there is no *m*- prefix either in stem II or stem III, unlike the present stems II and III where Neo-Mandaic has *m*-, it is quite possible that the imperatives are derived directly from their Middle Aramaic ancestor forms, e.g.:

	stem II	stem III
Sg. c.	*bărĕx*	*ăhrĕv*
Pl. m.	*bărĕxyon*	*ăhrĕvyon*
Pl. f.	*bărĕxyĕn*	*ăhrĕvyĕn*

Formation and Function of the Tenses
A tense which is represented by a specific inflectional paradigm, will be called a primary tense. Secondary tenses are derived from primary tenses by means of tense markers. As pointed out on p. 359 the inventory of primary tenses varies a great deal from one language or dialect to the other. Thus a function which is expressed by a primary tense in one language may by expressed by a secondary tense in the other (or not at all). Here we shall divide all primary and secondary tenses into three groups: present/continuous present, preterite, and perfect.

Present and continuous present   The morphological category of the present, based on the old active participle, is found in all ENA languages. In some archaic dialects such as Hertevin it can express actions performed generally or habitually (general present) as well as actions in progress (continuous present). Ţuroyo and most of the NENA languages, however, developed a prefixed present marker, e.g. Ţuroyo *ko-ḥoze*, Hassana *k-xaze*, Christian Aradhin *i-xaze* 'he sees'. This prefix originally served to specify a continuous present ("he is seeing" as distinguished from "he sees"); however, in most dialects, this function has weakened. The forms with present marker now simply denote indicative, as opposed to the subjunctive expressed by the unmarked form (see p. 365). Thus, in Ţuroyo, *ko-ḥoze* indicates a general present indicative ('he sees'), whereas the actual present must be expressed by an additional inflected presentative *kalé* 'behold' (see Presentative, p. 374), e.g. *kalé ko-ḥoze* 'behold, he sees' → 'he is seeing'.

   A number of dialects (e.g., the Jewish dialects of Azerbaijan and Iranian Kurdistan, but also Mlaḥsô) have lost the present tense marker in the strong verb and do not distinguish between general present (indicative) and subjunctive (see p. 365): Mlaḥsô *goréš*, Kerend *gărîš* 'he pulls/may pull'. However, the difference is maintained in I᾿ verbs, e.g. Kerend *hămîr* 'he may say' but *kmîr* 'he says', Mlaḥsô *omér* 'he may say' but *xomér* 'he says'.

   A clearer distinction between (general) present and continuous present is found in those languages and dialects which have developed a special morphological category to express the continuous present, cf. Jewish Azerbaijan *găršen* 'I pull', *garóšlen* 'I am pulling'.

   The present without a tense prefix is used as subjunctive in most ENA languages, e.g. Ţuroyo *lazîm d-goríš* 'it is necessary that he pull, he must pull'.

The present with a prefix *gŭd-, g-* (Ţuroyo), *d-* (Mlaḥsô), *bĭd-, b-* (NENA) expresses the future: Ţuroyo *mĭ=g-săymĭt*, Mlaḥsô *mun d-seymet?*, Hertevin *me b-ʾodĕt?* 'what will you do?' This feature is absent in the Jewish dialects of Iranian Kurdistan.

A past marker *-wa-/-wa* (in Ţuroyo *-wăy-/-wa*) can be added to the above tenses to transpose them into the past. Thus the habitual present yields a habitual past, the continuous present a continuous past, the future a conditional. The past marker, always unstressed, is either suffixed to the inflected form or inserted between base and inflectional suffix. The rules vary from one language or dialect to the other.

Examples from Txuma:

habitual present → habitual past:
i-găršăx 'we (usually) pull' → *i-gărš́ăxwa* 'we used to pull'
actual present → actual past:
bĭ-grásawĭθ 'you (m.) are pulling' → *bĭ-grásawĭθwa* 'you were pulling'
future → conditional:
bĭd-găršĭn 'I (m.) shall pull' → *bĭd-gărš́ĭnwa* 'I (m.) would pull'

Examples from Ţuroyo:

ko-gorắšno 'I (m.) pull, am pulling' → *ko-gorắšwăyno* 'I (m.) was pulling'
gorắšwăyno 'I (m.) pulled, used to pull'
g-gŭršo 'she will pull' → *g-gŭršowa* 'she would pull'

Preterite   The morphological category of the preterite is used in all ENA languages to express past action (narrative past). Both Ţuroyo and Kerend distinguish in the preterite of stem I between transitive verbs which have bases going back to the old passive participle **grĭš* and are inflected ergatively, and intransitive verbs which are inflected predicatively. In Kerend the inflected bases are historically identical, the difference between transitive and intransitive verbs residing only in the type of inflection, whereas Ţuroyo has bases harking back to an old deverbal adjective **garrĭš*. Examples are *grĭšle* 'he pulled' (transitive) and *qăyĭm/qim* 'he stood up' (intransitive) in Ţuroyo and Kerend.

In Neo-Mandaic the preterite continues the old "perfect" inflection of Middle Aramaic:

	Singular	Plural
3m.	*gʾṭăl*	*gʾṭălyŏn*
f.	*gĕṭlăt*	*gʾṭălyăn*
2m.	*gʾṭălt*	*gʾṭăltŏn*
f.	*gĕṭlit*	*gʾṭăltĕn*
1c.	*gĕṭlit*	*gʾṭălni*

Table 16.19 The preterite

| | | Transitive preterite | | Intransitive preterite | |
		Ṭuroyo	Kerend	Ṭuroyo	Kerend
Sg.	1c.	grĭšli	grĭšli	m. qayĭmno	qĭmna
				f. qayimóno	qĭmăn(a)
Pl.	1c.	grĭšlăn	grĭšlăn	qayimína	qĭmex(in)
Sg.	2m.	grĭšlŭx	grĭšlox	qayímĭt	qĭmĕt
	f.	grĭšlăx	grĭšlăx	qayímăt	qĭmăt
Pl.	2c.	grĭšxu	grĭšlăxun	qayimútu	qĭmetu
Sg.	3m.	grĭšle	grĭšle	qáyĭm	qim
Sg.	f.	grĭšla	grĭšlă	qayímo	qĭma
Pl.	3c.	grĭšše	grĭšlu	qayími	qĭmi

A past marker *-wa-/-wa* (in Ṭuroyo *-wăy-/-wa*), as above, can be added to the preterite to yield a remote preterite, e.g. Ṭuroyo *grĭšwăyle*, Txuma *grĭšwale* 'he had pulled', Ṭuroyo *qayimíwăyna* 'we had stood up'.

Perfect The morphological category of the perfect expresses the resultative. This morphological category does not exist in all ENA languages. It is widely found in NENA but neither in Ṭuroyo nor in Neo-Mandaic. Mlaḥsô, however, has a morphological perfect, utilizing the basis *gariš* which, in Ṭuroyo, serves to express the preterite of intransitive verbs. Compare:

	Mlaḥsô	Ṭuroyo	
Preterite	*dmíxle*	*dámĭx*	'he slept'
Perfect	*damíx*		'he has slept'
Preterite	*grĭšle*	*grĭšle*	'he pulled'
Perfect	*garíš*		'he has pulled'

The fact that Ṭuroyo does not have a morphological perfect does not mean that Ṭuroyo cannot express the resultative. This is done by using the tense marker *ko-*, thus *kodámĭx* 'he has slept', *kogrĭšle* 'he has pulled'. In other words, while Mlaḥsô *damíx* and Ṭuroyo *dámĭx* correspond etymologically, the functional equivalent of Mlaḥsô *damíx* would be Ṭuroyo *kodámĭx*.

This is the perfect inflection in Mlaḥsô, note the unusual pl. c. form ending in *-a*.

Sg. 1c. *damíxno*, pl. c. *damixína*
Sg. 2m. *damixét*, sg. f. *damixat*, pl. c. *damixítun*
Sg. 3m. *damíx*, sg. f. *damixó*, pl. c. *damixá*

A past marker *-wa-/-wa*, as on p. 367, can be added to the perfect to yield a pluperfect, e.g. Txuma *grĭšeθŭn* 'you (pl.) have pulled' → *grĭšeθŭnwa* 'you (pl.) had pulled'. This formation is not possible in the Jewish dialects of Iranian Kurdistan.

Weak and Irregular Verbs
Only three important types of weak verbs are considered: verbs with *y* or *w* as middle radical (root consonant) and verbs with *y* as last radical. Table 16.20, p. 369, shows the present, sg. 3m., sg. 3f. and pl. 3c. for each root type (*pyš/fyš* 'to stay', *qym* 'to stand up', *gwr* 'to get married', *ʾwd/ʾwl* 'to work, do', *ḥzy/xzy/hzy* 'to see').

II*y/w* verbs usually preserve the middle radical in the sg. m. base: *payěš* 'he stays, becomes', *gawěr* 'he marries'. When the base is extended, as in the sg. f. and pl. c., the ensuing diphthong has mostly been monophthongized: **payěš + -a* > **păyša* > *peša* 'she stays', **gawěr + -a* > *găwra* (= Chr. Aradhin) > *gora* 'she marries'. Some dialects have generalized the monophthongized base, yielding *peš* 'he stays', *hol/od* 'he does' (cf. Ṭuroyo *ʿowǐd* 'he works').

The pl. c. base of III*y* verbs has final *-n* in Ṭuroyo, Kerend and optionally in Jewish Azerbaijan, thus preserving the final consonant of the Middle Aramaic form (**ḥāzēn*), whereas *-n* has been dropped in strong verbs (**gāršīn* > Ṭuroyo *gŭrši*, Kerend *gǎršî*). In Neo-Mandaic, on the other hand, final *-n* of the plural base is also preserved in the strong verb (*gǎṭlěn*).

Verbs with *l, r* and *n* as last root consonant The preterite inflection of III*l* verbs results in an **ll* cluster: **qṭīl-le* 'he killed'. In Ṭuroyo the *ll* cluster is reduced to single *l* and the lax vowel *ǐ* replaced by tense *i*: *qṭile* 'he killed'. In the plural, *ll* results from the doubling of the final root consonant and is not reduced (see p. 362). In Christian Urmi and Kerend *ll* is reduced throughout to *l* but there is no concomitant replacement of *ǐ* by *i*.

The cluster **rl* which results in the preterite inflection of III*r* verbs is assimilated to *ḷḷ* in Ṭuroyo; the pl. 3c. suffix yields *ṛṛ*. In the remaining NENA dialects **rl* is assimilated to *rr*. In Christian Urmi and Kerend *rr* is reduced to *r* without concomitant replacement of *ǐ* by *i*.

	Ṭuroyo	Mangeš	Chr. Urmi	Kerend	
III*l*	*qṭíle*	*qṭĭllĭ*	*qṭĭli*	*qṭĭle*	'he killed'
	qṭĭlle	*qṭĭlle*	*qṭĭlŭn*	*qṭĭlu*	'they killed'
III*r*	*mĭḷḷe*	*mĭṛrĭ*	*mĭri*	*bqĭṛe*	'he said (Kerend: asked)'
	mĭṛṛe	*mĭrre*	*mĭrŭn*	*bqĭru*	'they said (Kerend: asked)'

Similarly, the cluster **nl* which results in the preterite inflection of III*n* verbs is assimilated to *ll* in Ṭuroyo (*mzabǎlle* 'he sold'); the pl. 3c. suffix yields *nn* (*mzabǎnne* 'they sold'). In the remaining NENA dialects **nl* is assimilated to *nn*. In Christian Urmi and Kerend *nn* is reduced to *n* without replacement of *ǐ* by *i* (Kerend *zbĭni* 'I sold').

In Kerend the reduction of the clusters *ll, rr, nn* without concomitant replacement of *ǐ* by *i* only takes place in verbs which are otherwise strong; in weak verbs, however, *ǐ* is replaced by *i*, thus, e.g. *qṭĭli* 'I killed' but *xíli* 'I ate', *bqĭri* 'I asked' but *míri* 'I said'.

Table 16.20 Weak verbs, present

Root	Mlaḥsô	Ṭuroyo	Hertevin	Chr. Aradhin	Chr. Urmi	J.Azerbaijan	Kerend	Neo-Mandaic
IIy	peš	fóyiš	páyĕš	páyiš	páyiš	peš	peš	qáyĕm
	peyšó	fáyšo	péša	péša	péša	pešá	pešá	qíma
	peyši	fáyši	péši	péši	péšiy	peší	peší	qímĕn
IIw	govér	gówir	gáwĕr	gáwir	gávir	od	hol	ávĕd
	govró	gúro	góra	gáwra	góra	odá	holá	ávda
	govrí	gúri	góri	gáwri	góriy	odí	holí	ávdĕn
IIIy	hozé	hóze	háze	xáze	xázi	xazé	xăzé	házi
	hozyó	hízyo	házya	xázya	xázya	xázyá	xázyá	házya
	hozí	hózin	háze	xáze/i	xáziy	xazé(ni)	xăzén(i)	házĕn

Verbs with Accusative Suffixes

There are various different ways of expressing the direct pronominal object (accusative object) of a verb, depending on the type of inflection (predicative, ergative or copulative) of a given verbal form.

The preterite of Neo-Mandaic, which is the only direct continuation, in all the ENA languages, of the older Aramaic "perfect" (see p. 366) stays outside the following discussion. It has inherited forms with added pronominal suffixes which still resemble the respective Middle Aramaic forms, e.g.

		+ suffix sg. 1	
gᵃṭăl	'he killed'	găṭle	'he killed me'
gĕṭlăt	'she killed'	gᵃṭălte	'she killed me'
gᵃṭălt	'you killed'	gᵃṭălte	'you killed me'
gᵃṭălyăn	'they killed'	găṭlŏnne	'they killed me'
gᵃṭăltŏn	'you (pl.) killed'	gᵃṭăltŏnne	'you (pl.) killed me'
		+ suffix sg. 2m.	
gᵃṭălni	'we killed'	gᵃṭălnăx	'we killed you (m.)'

In verb forms with copulative inflection (see p. 363) a set of pronominal object suffixes, identical with the possessives (see p. 355), is suffixed in certain dialects to the verbal base, e.g. Christian Urmi *bĭptáxa ili ~ bĭptáxili* 'he is opening', with added suffix sg. 3m. *-u*: *bĭptáxu ili ~ bĭptáxuli* (*bĭ-ptax-u-li*) 'he is opening him (it)', *bĭgrášiva* 'he was pulling', with added suffix sg. 3f. *-o*: *bĭgrášova* (*bĭ-graš-o-va*) 'he was pulling her'. The following examples from Txuma show the perfect form *xziθa ila ~ xzīθala* 'she has seen' with pronominal object suffixes:

Object suffix		
Sg. 1c.	xziθi ila	'she has seen me'
Pl. 1c.	xziθăn ila	'she has seen us'
Sg. 2m.	xziθŭx ila	'she has seen you (m.)'
f.	xziθăx ila	'she has seen you (f.)'
Pl. 2c.	xziθoxŭn ila	'she has seen you (pl.)'
Sg. 3m.	xziθe ila	'she has seen him'
f.	xziθa ila	'she has seen her'
Pl. 3c.	xziθé ila	'she has seen them'

Verb forms with predicative inflection take a set of object suffixes which consist of the pronominal suffixes (see p. 355) with the preposition *l-*. These object suffixes are identical with the suffixes of the ergative inflection (see p. 362). The *l* set suffixes are always suffixed to the inflected form, never to the verbal base. Table 16.21 shows Ṭuroyo *hóze*, Hertevin *ḥáze*, Kerend *xăzé* 'he sees' with pronominal object suffixes.

Table 16.21 Pronominal suffixes

Ṭuroyo ḥóze	Hertevin ḥáze	Kerend xǎzé	'he sees'
ḥozéle	ḥazéle	xǎzéle	'he sees him'
ḥozéla	ḥazéla	xǎzéla	'he sees her'
ḥozálle	ḥazéle ~ ḥazélehěn	xǎzélu	'he sees them'
ḥozélŭx	ḥazélöḥ	xǎzélox	'he sees you (sg. m.)'
ḥozéläx	ḥazéläḥ	xǎzéläx	'he sees you (sg. f.)'
ḥozálxu	ḥazélehön	xǎzéläxun	'he sees you (pl. c.)'
ḥozéli	ḥazéli	xǎzéli	'he sees me'
ḥozélăn	ḥazélăn	xǎzélăn(i)	'he sees us'

A specific feature of the *l* suffixes is the fact that they can express both direct (accusative) and indirect (dative) objects; thus Ṭuroyo *koḥozéli* can mean both 'he sees me' and 'he sees/finds for me'.

In verb forms with ergative inflection there are various concurring and partly overlapping ways of expressing a pronominal object.

1   The verbal base (inflectional base) of an ergatively inflected verb can take predicative inflectional suffixes to express the **patient** (logical object); to this inflected base are joined the ergative suffixes expressing the actor. Thus in Ṭuroyo **gríšle* (← *gríš* + *-le*) means 'he pulled him', literally, 'pulled is he by him'. By exchanging the inflectional base *gríš-* (sg. 3m.) with *gríšo-* (sg. 3f.) we get *gríšole* 'he pulled her'. In some of the eastern dialects of NENA we find a paradigm fully inflected for the patient, e.g. Christian Urmi:

grĭšli	'he pulled him'	
grišĭtli	'he pulled you (m.)'	
grišĭnni	'he pulled me (m.)'	(← *grišĭn* + *-li*)
grišáli	'he pulled her'	
grišắtli	'he pulled you (f.)'	
grišắnni	'he pulled me (f.)'	(← *grišǎn* + *-li*)
grišéli	'he pulled them'	
grišétŭnli	'he pulled you (pl. c.)'	
grišắxli	'he pulled us'	

In Ṭuroyo and the westernmost dialects of NENA ergative verb forms can only be inflected for a 3rd person patient. Thus Ṭuroyo has *gríšle* 'he pulled him', *gríšole* 'he pulled her' and *gríšile* 'he pulled them', but not **grišítle* 'he pulled you' etc.

2   In Ṭuroyo and some of the westernmost NENA dialects pronominal objects in ergatively inflected verb forms can be expressed by suffixing the *l* set of pronominal suffixes to the inflected verb form. However, since these suffixes are morphologically identical with the ergative inflectional suffixes, this implies that two identical sets of suffixes can follow one another in two subsequent morphological

slots. The inflectional suffix always comes before the object suffix, thus, e.g., Ṭuroyo *ḥzélilŭx* (*ḥze-li-lŭx*) 'I saw you (m.)' vs. *ḥzélŭxli* (*ḥze-lŭx-li*) 'you (m.) saw me'.

In Ṭuroyo and the westernmost NENA dialects the two morphological devices described under (1) and (2) above combine in the following way: a 3rd person direct pronominal object is expressed by the predicatively inflected verbal base whereas a 2nd or 1st person direct pronominal object is expressed by the *l* suffixes, thus, e.g., Ṭuroyo *grišóli* 'I pulled her' but *grišlilăx* (not **grišătli*) 'I pulled you (f.)'. Consequently, a 3rd person object suffix of the *l* set always implies an indirect (dative) object (*ḥzélile* 'I saw/found for him') whereas a 2nd or 1st person suffix of the *l* set can imply both a direct or an indirect object (*ḥzélilŭx* 'I saw you (m.)' or 'I found for you (m.)').

3   A number of NENA dialects do not allow the *l* set of object suffixes with ergatively inflected verb forms at all. Instead they join the *l* suffixes to the corresponding forms of the general present which are then transposed into the preterite by prefixing a special past marker *qăm, kĭm* (< *qdm*), e.g.

Ṭuroyo vs.	Christian Aradhin	
ḥzéle	*xzéle*	'he saw'
	(*ixazélŭx*	'he sees you (m.)')
ḥzélelŭx	*qămxazélŭx*	'he saw you (m.)'
Ṭuroyo vs.	Mangeš	
šqíla	*šqílla*	'she took'
	(*kšăqláli*	'she takes me')
šqílali	*kĭmšăqláli*	'she took me'

In such dialects, as in Ṭuroyo, a 3rd person direct pronominal object is expressed by the predicatively inflected verbal base, the *qăm/kĭm* construction being used with 2nd or 1st person pronominal objects.

Copula and Possessive Expressions

Copula

Free and enclitic copula   All ENA languages possess an inflected copula which is used with non-verbal predicates. It harks back to the independent personal pronouns, partly supplemented with the particle **īθ* which was already used as a copula in Middle Aramaic. In most ENA languages the copula has developed two sets of forms, one enclitic and one free.

Note that the free copula can follow or, more frequently, precede the predicate, whereas the bound copula is enclitical. Being a clitic and not a suffix – it has no influence on word stress, compare Ṭuroyo *hărke* 'here', *hărke-no* 'I am here' (clitic) vs. *hóze* 'he sees', *hozéno* 'I (m.) see' (suffix).

In most ·NENA dialects the initial *i-* of the enclitic copula coalesces with final

Table 16.22   Enclitic copula (allomorphs after a consonant)

		Ṭuroyo	Hertevin	Txuma	Chr. Urmi	Kerend	Neo-Mandaic
Sg.	1m.	-no	-ina	-iwĭn	-ivĭn	-yénă	-na(n)
	f.	-no	-ina	-iwăn	-ivăn	-yắn(ă)	-na(n)
Pl.	1c.	-na	-ĕhnăḥ	-iwăx	-ivăx	-yéx(in)	-nin
Sg.	2m.	-hĭt	-ihăt	-iwĭθ	-ivĭt	-yet	-yăt
	f.	-hăt	-ihăt	-iwăθ	-ivăt	-yăt	-yăt
Pl.	2c.	-hatu	-ĕhtŏn	-iθŭn	-itŭn	-yétun	?
Sg.	3m.	-yo	-ile	-ile	-ili	-ye	-ye
Sg.	f.	-yo	-ila	-ila	-ila	-yă	-ta ~ -ti
Pl.	3c.	-ne	-ini	-ilŭn ~ -ina	-ina	-yen(i)	-nŏn

Table 16.23   Free copula

		Ṭuroyo	Hertevin	Txuma	Chr. Urmi	Neo-Mandaic
Sg.	1m.	kĭtno	holĕn	iwĭn	ivĭn	ĕxte
	f.	kĭtno	holăn	iwăn	ivăn	ĕxte
Pl.	1c.	kĭtna	honăḥ	iwăx	ivăx	ĕxtăn
Sg.	2m.	kĭthĭt	holĕt	iwĭθ	ivĭt	ĕxtăx
	f.	kĭthăt	holăt	iwăθ	ivăt	ĕxtĕx
Pl.	2c.	kĭthatu	honitŏn	iθŭn	itŭn	m. ĕxtoxŏn
						f. ĕxtexĕn
Sg.	3m.	kĭtyo	hole	ile	ili	ĕxti
Sg.	f.	kĭtyo	hola	ila	ila	ĕxta
Pl.	3c.	kĭtne	honi	ilŭn ~ ina	ina	ĕxtu

-*a* of the predicate to yield -*e*-. In this case it is not possible to place a hyphen exactly at the morpheme boundary. A few examples of the enclitic copula in Ṭuroyo and Hertevin:

Ṭuroyo	Hertevin	
ṭắwwo-hĭt	ṭáwehĕt	'you (sg. m.) are good'
ṭắwto-hăt	ṭótehăt	'you (sg. f.) are good'
ṭắwwe-hatu	ṭáwĕhtŏn	'you (pl. c.) are good'

The copula in negative sentences is always a free form. Examples in a few ENA languages are shown in Table 16.24.

There is also a past copula (free and enclitic forms) and a negative past copula (only free forms), e.g. Ṭuroyo *šafíro-wa ~ kĭtwa šafiro*, Hertevin *šăpiréwa* 'he was beautiful', Ṭuroyo *lătwa šafiro*, Hertevin *lắwewa šăpira* 'he was not beautiful'.

Table 16.24 Negative copula

		Ṭuroyo	Hertevin	Txuma	Kerend	Neo-Mandaic
Sg.	1m.	lătno	lăwĕn	lewĭn	láyna	lĕxte
	f.	lătno	lăwăn	lewăn	láyăn(a)	lĕxte
Pl.	1c.	lătna	lăwăḥ	lewăx	láyx(in)	lĕxtăn
Sg.	2m.	lăthĭt	lăwĕt	lewĭθ	láyt	lĕxtĕx
	f.	lăthăt	lăwăt	lewăθ	láyăt	lĕxtĕx
Pl.	2c.	láthatu	lăwĕḥtŏn	leθŭn	láytun	m. lĕxtoxŏn
						f. lĕxtexĕn
Sg.	3m.	lătyo	lăwe	lele	láy	lĕxti
Sg.	f.	lătyo	lăwa	lela	láyă	lĕxta
Pl.	3c.	lătne	lăwe	lelŭn ~ lena	láyn(i)	lĕxtu

Presentative   Not all ENA languages have a presentative which means 'here he is' or 'here is', e.g. Ṭuroyo *kalé ~ kaléyo* 'here he is', *kalá kŭrfo* 'here is a snake'.

Possessive Expressions

'To have'   The widespread words for 'there is' and 'there is not', Ṭuroyo *kit* and *lăyt*, Christian Urmi *ĭt* and *lĭt*, Kerend *hit* and *lit*, are combined with the preposition *l-* + pronominal suffixes to express the notions of 'to have' and 'to have not'.

Table 16.25 To have

		Ṭuroyo	Hertevin	Chr. Urmi	Kerend	Neo-Mandaic
Sg.	1c.	kĭtli	étli	ĭtliy	hĭti	éhle
Pl.	1c.	kĭtlăn	étlăn	ĭtlăn	hĭtăn(i)	éhlăn
Sg.	2m.	kĭtlŭx	étlŏh	ĭtlŭx	hĭtox	éhlăx
	f.	kĭtlăx	étlăh	ĭtlăx	hĭtăx	éhlĕx
Pl.	2c.	kĭtxu	étlehŏn	ĭtloxŭn	hĭtăxun	m. éhloxŏn
						f. éhlexĕn
Sg.	3m.	kĭtle	étle	ĭtli	hĭte	éhli
Sg.	f.	kĭtla	étla	ĭtla	hĭtă	éhla
Pl.	3c.	kĭtte	étle ~ étlehĕn	ĭtlŭn	hĭtu	éhlu

'To contain, to be able'   A similar construction with the preposition *b-* expresses the notions of 'to contain; to be able to' and their negatives: Ṭuroyo *kibe/lăybe*, Hertevin *ĕdbe/lĕdbe* etc. These constructions do not occur in the eastern part of the area.

Order of Elements
The preferred word order is SVO.

Table 16.26   To have not

		Ṭuroyo	Hertevin	Chr. Urmi	Kerend	Neo-Mandaic
Sg.	1c.	látli	létli	lítliy	líti	léhle
Pl.	1c.	látlän	létlän	lítlän	lítän(i)	léhlän
Sg.	2m.	látlŭx	létlöḥ	lítlŭx	lítox	léhlăx
	f.	látläx	létläḥ	lítläx	lítäx	léhlĕx
Pl.	2c.	látxu	létleḫŏn	lítloxŭn	lítäxun	m. léhloxŏn
						f. léhlexĕn
Sg.	3m.	látle	létle	lítli	líte	léhli
Sg.	f.	látla	létla	lítla	lítä	léhla
Pl.	3c.	látte	létle ~ létlehĕn	lítlŭn	lítu	léhlu

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17 The Modern South Arabian Languages

Marie-Claude Simeone-Senelle

In the south of the Arabian Peninsula, in the Republic of Yemen and in the Sultanate of Oman, live some 200,000 Arabs whose maternal language is not Arabic but one of the so-called Modern South Arabian Languages (MSAL). This designation is very inconvenient because of the consequent ambiguity, but a more appropriate solution has not been found so far. Although there exists a very close relationship with other languages of the same Western South Semitic group, the MSAL are different enough from Arabic to make intercomprehension impossible between speakers of any of the MSAL and Arabic speakers. The MSAL also exhibit many common features with the Semitic languages of Ethiopia; their relationships with Epigraphic South Arabian (Sahaydic Languages, according to Beeston) remain a point of discussion.

There are six MSAL: Mehri (M), Ḥarsūsi (Ḥ), Baṭhari (B), Hobyōt (Hb.), Jibbāli (Jib.), also known as *Ehhkili, ehkli, šhawri, šxawri, šheri, šeri, qarāwi* (cf. Johnstone 1981: xi), Soqoṭri (S.). (See p. 420 for other abbreviations used in this chapter.)

Mehri is the most widespread language, spoken by the Mahra tribes (about 100,000 speakers) and some Beyt Kathir, in the mountains of Dhofar in Oman, and in the Yemen, in the far eastern governorate, on the coast, between the border of Oman and the eastern bank of Wadi Masilah, and not in the Mukalla area, contrary to Johnstone's statement (1975: 94); in the north-west of the Yemen, Mehri is spoken as far as Thamud, on the border of the Rub' al-Khali.

The Yemenite Mehri speakers distinguish two groups among the Mehri dialects; they call the variety of Mehri spoken west of Ras Fartak [mehrīyət], and [mehriyōt] the Mehri of the *Sharqiya*, the eastern area (including the Mehri of Dhofar). Johnstone (1975: 94) quotes *məhrəyyət* as the name of the language in Dhofar.

The Mahra inhabitants of the desert steppe of the Yemen, as well as in the mountains of Dhofar in Oman, are semi-nomads who breed camels, cows and goats. Some bedouin in the Yemen are owners of four-wheel-drive cars which enable them to trade with other countries of the peninsula, providing supplies for numerous shops in the coastal towns and villages of the Mahra. In the area of Qishn,

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bedouin cultivate palm trees.

Ḥarsūsi [ḥərsíyət] is spoken by the Ḥarāsīs and the 'Ifār, in the area of Jiddat al-Ḥarāsīs (north-east of Dhofar). The number of speakers was put at no more than 600 by Johnstone (1977: x), but this reckoning was made during the period when many Ḥarāsīs had left their region to go and work in oil wells. Since then, many of them have returned.

Baṭḥari is the language of the Baṭāḥira who live on the southern coast of Oman, in the Jāzir area, between Ḥāsik and Ras Sharbithāt. Their number is put at about 300 (Morris 1983: 130); they are "pastoral cave-dwellers and fishermen" (Johnstone 1975: 94).
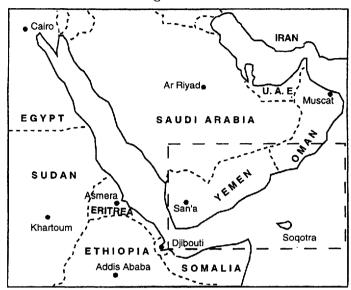
Ḥarsūsi and Baṭḥari are very closely related to Mehri; as for Hobyōt [həwbyốt], the very recent development of the research on this language (at least, Hobyōt spoken in the Yemen, discovered in 1985) relates it to the Mehri group, even though regular contacts with Jibbāli speakers have an effect upon this speech. The Hobyōt speakers, less than one hundred in number, claim to belong to the Mahra tribe. They breed camels, cows and goats in the mountains, on the border between Oman and the Yemen (in the area of Jadib and Hawf, and Haberut seems to be the northern boundary of their area). They spend the rainy season with their cattle in caves, up in the mountains, and then go down to their settlements of round houses covered with branches.

The Jibbāli language [gəblḗt]/[śḥerḗt] received many names in the scientific literature, the most common of which being Šḥauri, Eḥkili, Qarāwi, Šḥeri. Johnstone (1981: xi–xii) chose [Jibbāli] during fieldwork as the name that the speakers do not consider pejorative. It is spoken in Oman "by a number of communities of different social status and tribal origin, numbering together about 5,000" (Johnstone 1975: 94). Jibbāli speakers live in the mountains of Dhofar where they are semi-nomads, rearing camels and cows, and collecting frankincense; in the coastal villages of this area (Raysūt, Ṣalāla, Mirbaṭ, Sidḥ) they carry on various jobs. The Baṭāḥira, who breed cattle in the mountains of Wādi Ezdaḥ, east of the road to Thamrit, speak Jibbāli (Morris 1983: 143, n.1); the inhabitants of the Kūria Mūria Islands are fishermen who speak a specific variety of the Jibbāli language.

Like the Jibbāli speakers, the Soqoṭris have no particular word for their language; it is named Soqoṭri [skÁṭri]. It is spoken in the Yemen, on the island of Soqoṭra and the neighbouring islets of 'Abd-al-Kūri and Samḥa. The inhabitants of Soqoṭra are put at 50,000, those of 'Abd-al-Kūri at about 250 (Naumkin 1988: 342, 359) and at ten or a dozen in Samḥa. On the coasts the inhabitants are fishermen and cultivate date palms; in the mountains cave dwellers. Bedouin rear camels, cows and goats; in hamlets people cultivate millet, and in the eastern area, they collect the gum of the dragon's blood tree. The inhabitants of 'Abd-al-Kūri and Samḥa live on fishing.

Dialectology and Sociolinguistic Situation

Mehri, Jibbāli and Soqoṭri have a very rich dialectology for which sociological and geographical parameters are relevant.

Map 4   Location of the MSAL region
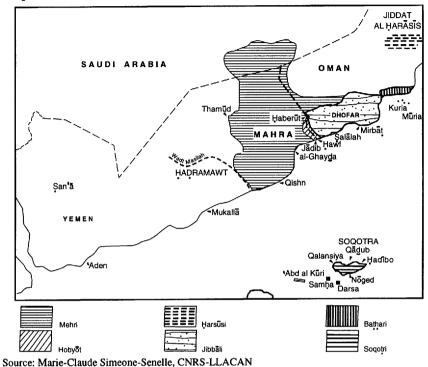
In the Mehri language, there is a very clear distinction between the variety spo-
ken in Dhofar and in the far east of the Yemen and the western variety. Within one
and the same dialectal area there are, in addition, differences between bedouin
varieties and city or village dwellers' varieties. The dialect of Qishn, the former
capital of the Mahra is very prestigious in the Yemen.

In Jibbāli, Johnstone (1981: xii) makes a distinction between the central, east-
ern and western dialects.

Regarding Soqotri, it is possible to distinguish four groups between the sur-
veyed dialects: the dialects of the northern coastal villages (including the main
one, Hadibo), those of the southern coast, the varieties spoken by the bedouin in
the Hagher Mountains (in the center of the island), and the dialects of the area of
Qalansiyah (far west). The dialect of 'Abd-al-Kūri is apart, whereas that of Samha
belongs to the western dialects of Soqotra (Naumkin 1988: 343, 344).

The languages spoken in Dhofar have a particular status because they are in
contact with both Arabic (as the other MSAL) and the other MSAL of the region.
Native speakers use their mother tongue for private purposes, in the family circle
and with other speakers of the same language; many a speaker uses several MSAL,
when these languages are closely related.

Intercomprehension between Soqotri or Jibbāli speakers and speakers of any oth-
er MSAL is impossible. When in contact with each other, they resort to Arabic, as
with Arabic speakers. Both in Oman and in the Yemen, Arabic is the language used
for official intercourse (administration, schools, the army). As for cultural activi-
ties, the texts collected since 1898 in Mehri, Jibbāli, Soqotri and Batḥari prove that
these languages possess a rich oral literature consisting mainly of tales and poetry.

Map 5   The Modern South Arabian languages

Source: Marie-Claude Simeone-Senelle, CNRS-LLACAN

Phonology and Phonetics

The Consonants

	plosive	fricative	ejective	nasal	liquid	rolled
labial	b	f		m		
interdental		θ δ	θ̣			
denti-alveolar	t d		ṭ	n	l	r
		s z	ṣ			
palato-alveolar		š	š̌			
lateral-alveolar		ś	ṣ́			
palatal	y					
velar	k g	x γ	ḳ			
labio-velar		w				
pharyngeal		ḥ ʿ				
laryngeal	ʾ	h				

The consonantal system of the MSAL is the closest, among the modern Semitic languages, to the reconstructed system of Proto-Semitic. They are the only ones with three alveolar fricatives. In addition, the MSAL also have a phoneme *ṣ̌*.

Another typical feature of the MSAL is the post-glottalized realization, as in the Ethiopian languages, of the emphatic consonants of the Semitic; it is of great interest because it questions the hypothesis of a Cushitic influence on the Semitic languages of Ethiopia in this matter.

The central dialect of Jibbāli (cJ) has a phoneme /š/ (labialized *ṣ̌*) contrasting with /š/: *JL ebrítš* 'your (sg. f.) daughter', *ebrítš* 'his daughter', where the eastern dialect only has /š/.

Only Soqoṭri does not have interdentals. The merging of the interdentals with the dentals in some city dialects in western Mahra is a sociolinguistic phenomenon and does not lead one to infer that the consonantal system of Yemenite Mehri lacks interdentals.

In Soqoṭri, the merging of the velar fricatives /x/ and /ɣ/ with the pharyngeals /ḥ/ and /ʕ/ is particular to some dialects only, those studied before 1985; in other dialects the velar fricatives do occur, even in native words: SQa *xə́məh* (SQb *ḥı́meh*) 'five'; SQa *ɣáyǧ* (SHo *ʕéyǧ*) 'man'.

To Semitic */š/ (~ /s/ in Arabic and Ethiopian) corresponds /š/ or /h/ in the MSAL. In Jibbāli /š/ frequently corresponds to Mehri /h/, to Soqoṭri /h/ or /š/: JL *šṓʕ* (*b* > Ø), ML *hṓba*, SQb *yhṓbəʕ* 'seven (m.)'; JL *-hum*, MQn *-həm*, SQa *-hən/ -šən* (3rd person plural masculine pronoun suffix).

The Laterals ś and ṣ́

These fricatives have an apico-alveolar articulation: the tongue tip is on the alveolar ridge and the lateral fricative sound is produced by the air flowing out of the passage opened by lowering the mid section of the tongue and retracting the corner of the mouth, generally at the right side. The glottalized *ṣ́* is often voiced (see below). This lateral articulation of *ḍ*, the Arabic reflex of *ṣ́*, was described in the eighth century by Sībawayhi.

The Ejective Consonants

The prevailing articulation of the 'emphatic' consonants is not, as in Arabic, a velarization, but a post-glottalization. For greater convenience, these consonants are written with a subscript dot, but the articulation is indeed ejective: [θ'], [t'], [s'], [š']/[ś'], [ś'], [k']. The degree of this glottalization varies, depending on the position of the consonant in the word and on the dialects concerned: for instance, in some Soqoṭri dialects, the glottalization is weaker, and in the Mehri dialect of Qishn, the constriction of the glottis is not complete and provokes a laryngealization or creaky voice; under such conditions, some emphatics become voiced (for instance *θ̣* is often pronounced as [ð̣]). Johnstone (1975: 98) has shown that, in the languages of Dhofar, glottalized consonants are to be grouped with the voiced consonants from a morphological point of view: for instance, words with initial voiced or glottalized consonant take the prefix *a-/ɛ-*, which is the definite article

in the nominal system and a morpheme of derivation in the verbal system, this morpheme being zero in front of voiceless consonants.

In the Mehri of Qishn, laryngealization may spread to the direct vicinity of the consonant or even to the entire word (Lonnet and Simeone-Senelle 1983: 191–193).

The Glottalized Palato-alveolar š́

This phoneme š́ ([ṣ̌] in central Jibbāli) occurs in all the MSAL. There are few occurrences of it and the phoneme never appears in the same words in the six MSAL: MQn ḥašbáʾ, ML š́əbáʾ, HHt hīš́əbáʾ, B (ML) ḥašbáʿ, ḤL ḥašbáʾ, J (ML) ʾɛš́báʿ, but JL ʾiš́báʿ, HHf ʾīš́əbáʿ, SQb ʾə́š́baʿ 'finger'.

š́ may be connected with some rules of phonetic evolution. This phonologized variant often comes from the palatalization of /ḳ/: J (ML) š́uyɛ̄t, JL š́uyɛ̄t, ML ḳáymət 'judgment day'; SHr š́édhər, ML ḳā́dər 'pot'; J (ML) məš́ḥayrér, JL məš́hérér, ML məḵ̣hayrír 'shin bone'. It may be a very particular evolution of /ṣ/ or /ṣ̌/: ML š́əfdēt, ḤL š́əfdáyt 'frog' (see Arabic ḍufdaʿa), but in a few occurrences, no explanation can be provided:

> SQa š́áʿš́aʿ 'to take a little sip', ḥə́nš́eh '(name of) shellfish'
> MQn š́ənš́ə́n 'snail (col.)'
> MQn š́áffi, ML š́əffáy, HHt š́ífeʾ, B (ML) š́əffáyh 'elbow'
> MDt bəš́ín, HHf biš́ʿín 'Tristram's grackle' (here, š́ may be a variant of š́ before ʿ)
> JL š́úrúm 'to sulk'

The Pharyngeal ʿ

ʿ has a particular status in Ḥarsūsi and in some dialects of Mehri where it occurs very rarely (e.g., out of 403 words with a /ʿ/ in the root, [ʿ] occurs only in forty-four words, mainly borrowed words from Arabic). Generally, the pharyngeal is replaced by the laryngeal ʾ, or is only but a virtual phoneme influencing the length and the timbre of the vowel in contact, sometimes inducing a diphthong. In Mehri, this phenomenon seems to be less common in the dialects of the Yemen (except those of the area of Qishn) than in the Mehri of Dhofar:

> (ʿfr): MDt, MJb ʿə́fər, MQnB ṓfər, ML ʾṓfər; ḤL ʾáfər; Hb. ʿə́fər, B (ML) ʿā́fər, JL ʿə́fər; S (ML) ʿáfər 'red'

Often, where ʿ occurs, its status is unstable. The same speaker for the same word may or may not pronounce it: MDt š́áʿθayt or š́ā́θayt 'three', and its occurrence is not predictable: MDt, Hb. fám (sg.), fáʿmtə (pl.) 'foot, leg'; ML rɛ́ʿi 'herder' and rō 'to herd'.

The Laryngeal ʾ

In Mehri, Hobyōt, Ḥarsūsi, the initial and non-etymological h and ḥ may be the

development of the laryngeal ʾ: MQn, *ML* həbḗr, *ḤL* həbyār 'female camels'; MQn, *ML* ḥáyb, Hb. ḥéb, 'father'. In a word such as MQn ḥəróh, *ML* ḥərōh, *ḤL* ḥərīh, (B (*ML*) ērīh) 'head', ḥ seems to be the trace of a lost article (absent in Mehri of the Yemen, Ḥarsūsi, Hobyōt but not in Mehri of Oman).

The So-called "Parasite h" in Soqoṭri

A typical feature of Soqoṭri, the occurrence of this non-etymological and non-morphological *h* (in nouns and very rarely in verbs) is related to the particular evolution of the long vowels and to the rules of stress in Soqoṭri: stress falls on the penultimate or antepenultimate syllable. The vowel (formerly long) of the syllable might be preserved by this *h* (more rarely by ʾ): SQb ṣʌlə́lhɛn/ṣʌlélihɔn 'small valley, small stream'; SHo líbʾhɔn 'white'.

A particular articulation of the consonants, with the vocal cords apart at one end, occurs in Soqoṭri, and this phenomenon ([ʰ]), called murmur or breathy voice, may affect the neighbouring vowels and therefore contribute to the occurrence of the parasite *h* (Lonnet and Simeone-Senelle 1997).

Palatalization

The palatalization is common to all the MSAL (cf. the Semitic root ⟨kbd⟩ ~ ⟨šbd⟩ in MSAL) and a palatalized consonant may be phonologized (cf. /š/).

Palatalized /g/, /k/ and /ḳ/ occur in all the MSAL, but to different degrees: /g/ > voiced pre-palatal [ž], [žʸ] in Soqoṭri, [ẓ] (labialized ẓ̌) in *JL*, voiced palato-alveolar [ǧ] in Mehri and Hobyōt:

> SQb [ɣáž-əh], SAK [ʿáž̌ʸəh] 'woman'
> *JL* [ɣažét], HHt [ɣoǧǧít] 'big girl'
> MQn [ɣaǧǧḗn] 'boy'

In some Soqoṭri dialects, /k/ > [c], /ḳ/ > [ç], when in contact with /i/: SQa ikŏ́təb 'he writes', di-ḳáʿr 'of the house' and SQb icŏ́təb, dʲçaʿr.

The Retroflex Clusters

In the Mehri and the Hobyōt of the Yemen, /r/ plus a following denti-/lateral-alveolar consonant have both a retroflex articulation:

> MQn [kíʈṣ], HHt [kéʈṣ] 'belly'
> MMf [káɳət] 'womb'
> MQn ḳeśer-l-śiǧártən [keśéʈʃiǧáʈʈən] 'the barks of trees'
> MJb harṣōm > [haʈẓ́ōm] 'tops of the feet'

The Consonants /m/ and /b/

In Jibbāli, these two etymological consonants never occur in intervocalic position; this non-occurrence affects the length and timbre of the vowel; the long vowels and the nasalized ones are the phonetic results of this phenomenon: *JL* ɛrḥím, ɛrḥít/ɛrḥḗt 'beautiful'; ɣɔ́r//yɣ̄ɛr/yɣbírə 'to meet'.

In Mehri, in the paradigm of a few verbs, /b/ does not occur in intervocalic position: MQn *ṭalōm* 'they requested' (*ṭalôb* 'he requested'); MQn *śɔ́ṭ/yaśɔ́ṭ* ⟨śbṭ⟩ 'he took/he takes'.

The Processing of /l/
In Jibbāli, and in some Soqoṭri dialects, /l/ has a fricative variant *ź*: JL [gíźɔl] (*ML gílɔl*) 'cooked/boiled (food)'; SQa [śáźəʿ] (SHo *śálʿ*) 'rib'.

In Eastern Mehri and sometimes in Ḥarsūsi, /l/ > *w*: ḤL [ḥəwḳát] (MQn *ḥəlḳát*, *ML ḥewḳāt*) 'circle', with an analogical plural [ḥewēḳ] (*ML ḥelēḳ*).

In a stressed syllable *l* is reduced to zero and the length and timbre of the vowel change: *ML sēmək* 'I was safe' (/sə́lmək/).

Pausal Forms
In pausal forms, some final voiced consonants are often devoiced and realized as ejectives in Mehri of the Yemen. In some dialects of Soqoṭri, only final /ʿ/ is concerned:

MJb *dəmḗɣ* > [dəmḗx'] 'brain'
MQn *ǧíd* > [ǧít'] 'good'
SQb *ṭɔ́dəʿ* > [ṭɔ́dəh'] 'back'

The Vowels

```
    i                                    u

      e   ø                          o

                   ə

      ɛ   œ                    ʌ   ɔ
           a                 ɑ
```

Not all the vowels occur in all the MSAL. Systems vary according to each language. The quantity and timbre of the vowels are linked to stress rules and the consonantic environment (i.e. the occurrence or not of the glottalized, pharyngeals, velars).

Among the MSAL, Jibbāli and Soqoṭri are noticeable on account of the richness of the vocalic timbres. Diphthongs *ay, aw* frequently occur in Mehri, Ḥarsūsi and Hobyōt, but rarely in Soqoṭri and almost never in Jibbāli.

In Mehri the vowel system has two or three (according to the dialects) short vowels /a/, /ə/, (/ɛ/), six long vowels /ī/, /ē/, /ɛ̄/, /ā/, /ō/, /ū/. As Johnstone noted (1975: 103), it is difficult to distinguish phonetically *ō* from *ū* (even the same speaker may in the same sentence use *āmərút* or *āmərót* 'she said'), and *ī* from *ē*, even if rare minimal pairs do occur such as *ML kəbkīb* 'star' ≠ *kəbkēb* 'entry' and *ktōb* 'book' ≠ *ktūb* 'he wrote'.

In Jibbāli and Soqoṭri, the range of vowels is: *i, e, ɛ, ə, a, ɔ, o, u* (Johnstone 1981: xv). In these two MSAL, in which the range of vowels is larger, the contrast between long and short vowels is not always phonological. In Jibbāli, the long

vowels result from the integration of the definite article (ε-/a-) or from the processing of b/w or of y:

JL *ɛrní*, def. *ʾērni* 'hare'
ʾɔb, def. *ʾɔ́b* 'door'
šəgēb ⟨š-gwb⟩ 'to answer'
ōṣəf ⟨wṣf⟩ 'to describe'
ḳēl ⟨ḳbl⟩ 'to accept'
lūn ⟨lbn⟩ 'white (m.)'
gēr ⟨gyr⟩ 'to oppress'

In Jibbāli, nasal vowels are combinative variants resulting from the influence of *m* in intervocalic position: JL ⟨xmr⟩ *xēr* 'wine', *oxɔ́r* 'to make drunk', *axtī́r* 'to drink wine'; *ylū́ʿ* ⟨lmʿ⟩ 'it shines'.

In the Mehri of the Yemen, in Hobyōt and in Soqoṭri, vowels in contact with nasal consonants are frequently nasalized: MQn [amṹṣʌɣ] 'I chew'; HHf [tũmʰ] 'you (pl. m.)'; SQaB [ɣãs] (SQa *ɣans*), SNd [ʿãs] (SQb *ʿans*) 'elbow'.

Other Phenomena

Syllabic Structure and Stress
The most common syllabic structures are CV(C) or CV:. In initial position, we find (C)CV(C) or (C)CV:, and in final position: CV(C(C)) or CV:(C).

In Jibbāli, triconsonantal groups occur: JL *ṣɔ́ṭf* '(meat) to become dry', *ššféf* 'to be able to be dried', *íkkbéb* 'he stoops'.

The stress in Mehri, Hobyōt, Baṭhari, Ḥarsūsi is on the last long syllable or on the first syllable if there are only short syllables in the stress unit.

Jibbāli is particular in the sense that a word or a stress unit can have several stressed syllables: JL *minšérɔ́t* (ML *mənkạrét*) 'middle finger'. When a word has only one stress, it is on the same syllable as the Mehri word: JL *mišəndɔ́t* (ML *məkəndét*) 'thumb'.

In Soqoṭri, the general trend is to have the stress toward the beginning of the word. This phenomenon has led to the dividing of the vowel, having lost stress and length, by the emergence of a so-called parasite *h*: SQa *kạ́tmehəm* (ML *kạtmīm*, JL *kạtmím*) 'butter'; SQa *ʾírhez* (MQnB *hayrēz*, ML *yərēz*, JL *ʾirɔ́z*) 'rice'.

Gemination
Gemination occurs in all the MSAL to various degrees according to the language, very rare in Soqoṭri. It never has a morphological value (as in Arabic, for instance). Its origin may be lexical with roots C2 = C3, or C3 = C4, or C4 = C5:

MDt *dəkk* 'he sprung up', *šxəwəllɔ́t* 'she stayed'
ML *kạṭəbbūt* 'doll'
HHf *mǧəllɔ́t* 'type of house'
JL *eṣəḥḥɔ́š* 'he cured him' (*aṣḥáḥ* 'he cured')

The origin may also be phonetic or morpho-phonetic, due to the assimilation of some radical consonants in contact with *t* (derivational morpheme):

MDt *haδδūr* ⟨h-t-δr⟩ 'to take care'
MQn *'áṣṣʌd* ⟨'-t-ṣd⟩ 'to be anxious'
ML káṣṣəl ⟨k-t-šl⟩ 'to be broken'
ḤL háttəm ⟨h-t-mm⟩ 'to be sad'
JL múttəs ⟨m-t-ss⟩ 'to be bitten'

In Jibbāli gemination occurs in the derived verbal themes (by vocalic prefix and vocalic modification): in the perfect, *eššókər* 'to squint' ⟨śkr⟩, and/or in the imperfect: *yaššókərən, íffhɔ́ś* 'he boils' (*efhéś*, causative of *fhɛś*).

The process of gemination in the MSAL is related to the syllabic structure. In the morphological variation of verbs and nouns, gemination does not affect the same consonant; a shifting of gemination may occur, and according to the forms of the paradigms, gemination affects either a consonant of the root or the derivational morpheme: MQnB *féttək* ⟨f-t-kk⟩ 'he got rid of' and sg. 3f. *ftəkkɔ̄́t, kʌṣṣáwr* ⟨k-t-ṣr⟩ 'he shortened', and sg. 3f. *kʌṣarrūt; lšáḥḥaś* ⟨š-ḥśś⟩ 'he tracks (subj.)'; *ḤL kəṭṭəbɔ̄t* ⟨kṭbb⟩ (pl. *kaṭəbāb*) 'doll'; *JL dekk//yɔ́ddək* (subj.) 'to bump (against)'; *míxxəl*, active participle of *axlél* '(water) to penetrate'.

Morphology

Personal Pronouns

Table 17.1 Independent pronouns

		MY (*ML*)	HHf	*ḤL*	*JL*	SQa, SQb
Sg.	1c.	hoh (=)	hoh	hoh	hé	hɔh(hɔn), hoʰ
	2m.	hēt (=)	het	hēt	het	het
	f.	hēt (=)	hit	hēt	hit	hit
	3m.	heh (=)	heh	hah	šɛ	yʰeh, heh
	f.	sch (=)	seh	sēh	sɛ	seʰ
Du.	1c.	tī (əkɔ́y)	tī	ətī	ti	kiʰ
	2c.	tī (ətáy)	tī	ətī	ti	tiʰ
	3c.	hī (hay)	hī	hī	ši	heʰi, hi
Pl.	1c.	nha (ənha)	nha	ənhā	nha, nhan	han(hɔn)
	2m.	tēm (ətēm)	tum [tũmʰ]	ətōm	tum	tan
	f.	tēn (ətēn)	ten [tenʰ]	ətēn	tɛn	tan
	3m.	hēm (=)	hum [hũmʰ]	hōm	šum	yhan
	f.	sēn (=)	sen [senʰ]	sēn	sɛn	san

Independent Pronouns
The dual pronouns bear the marker of the nominal dual *-i*. In the Mehri language

Table 17.2 Pronouns with singular and plural nouns, verbs and prepositions

	MY = ML	HHf	ḤL	JL	SQb
Sg. 1c.	-i/-ye //-ī, əy	-i/-iyɔ //-ī	-i/-ye //-əni(yə)	-i/-i	-ɔyʰ, əˀ
2m.	-k/-kɛ //-ūk	-k/-kɛ //-ōk	-ək/-iyək //-ōk	-k/-ɛk	-k
f.	-š/-šɛ //-īš, ēš	-š/-šɛ //-īš	-əš/-iyəš //-əš	-š/-ɛš	-š̌
3m.	-h/-hɛ //-eh, ih	-h/-hɛ //-eh	-əh/-iyəh //-əh	-š/-ɛš	-h, -š̌
f.	-s/-sɛ //-īs	-s/-sɛ //-ēs	-əs/- iyəs //-īs	-s/-ɛs	-s
Du. 1c.	-ki/-iki //-īki, əki	-ki/-eki // [?]	-ki/-iki //-əki	-ši/-ɛši	-ki
2c.	-ki /-iki //-īki, əki	[?]	-ki/-iki //-əki	-ši/-ɛši	-ki
3c.	-hi /-ihi //-īhi, əhi	[?]	-hi /-ihi //-əhi	-ši/-ɛši	-hi
Pl. 1c.	-ən/-ien //-yən, īn	-ən/-yən //-ēn	-ən/-iyən //-ayn	-ən/-ɛn	-ən
2m.	kəm/-ikəm //-ikəm	kum/-īkum //-ōkum	kəm/-ikəm //-ōkəm	-kum/-ɔkum	-kən
f.	kən/-ikən //-ikən	kən/-ikən //-ēkən	kən/-ikən //-ikən	-kən/-ekən	-kən
3m.	həm/- ihəm //-īhəm	hum/- īhum //-ōhum	həm/-ihəm //-ōhəm	-hum/-ɔhum	-hən, -šən
f.	sən/-isən //-īsən	sən/-isən //-īsən	sən/-isən //-īsən	-sən/-sen	-sən

of Qishn and the surrounding area, there are no dual pronouns (pronominal and verbal duals are obsolete).

Independent pronouns generally stand for the subject of the sentence. It can be apposed to a noun with a suffix pronoun: MQn *beyt-i-hoh* 'it is my house'. With the connecting particle *δ-/d-*, it is used to express possession: MQn *sakkēr-k d-hēt* 'it is your sugar, (sugar) for you'. HHf *lhḗtə δ-hi* 'their (du.) cows', SQb *di-ḥan kaʿr* 'our house'. It can follow some prepositions: *JL lə-hés šέ* 'like him'.

Suffix Pronouns
In *ML, ḤL, JL*, the suffix pronouns can only be added to a definite noun (with an article): *ML a-ɣərōy-əh* 'his speech' (MQn *ɣərōyəh*), *ḤL a-mkō-kəm* 'their place', *JL ērúnḗš* 'his goats' (indef. form *ʾerún*).

In Mehri, Hobyōt, and Ḥarsūsi, the suffix pronoun is different after a noun and after a verb or a preposition. It also varies according to the number of the noun. In *JL*, pronouns only vary according to the number of the noun but have the same form after a singular noun, a verb or a preposition. In Soqoṭri, there is only one set of suffix pronouns. The 3m. has a *h* or *š* base.

When added to a verb or a noun, the suffix pronoun entails modifications of the basic pattern of the word, vocalic timbre and quantity, syllabic structure and stress:

> MQn *ɣagēnṓt > ɣagēnáts* 'her girl', *ɣagēnū́tən > ɣagēnátsε* 'her girls'; *səbū́ṭ > səbṭáys* 'he beat her', *isū́bʌṭ > isəbṭɔ́s* 'he beats her'
> HHf *ɣɔwɔ́tə > ɣwɔ́tīhum* 'their brothers'
> ML *nəxrī́r > anxráyri* 'my nose'
> ḤL *bəgṓd > bəgədáyn* 'he chased us'
> JL *réš > érešέsən* 'their heads', *kɔ́rɔ́š > kiršɔ́š* 'he thumped him'

At the sg. 1, after some prepositions, the suffix pronoun is *-ni*: MQn *hīni*, ML *háyni*, ḤL *hə́ni*, JL *híni* 'for me'. In *ḤL*, *-ni* is used with numerous prepositions: *tə́ni* (ML *tɛy*, JL *tɔ*), *bə́ni* (ML *bī*, JL *bí*), *əm-bēnyéni wə bēnyū́k* 'between me and you'; and with most verbs: *ankʿəni* 'he came to me', *bəgədə́ni* 'he chased me', but *təxɔ́mi* 'you want me'. After many transitive verbs, the dependent pronoun is suffixed to the accusative marker *t-*: MQn *śink tēs* 'I saw her'.

Some prepositions in Mehri, HHf, *ḤL* and *JL* are followed by the same affixed pronouns as the plural nouns: MQn *nxālíhəm*, HHf, *JL lxinúhum* 'under them'.

In MDt, the suffix pronouns, after some prepositions, such as *δār* 'on', *mən* 'from', are identical to those used with the singular nouns: *δεyrək* 'on you' (but *būk* 'to you'), *mənk* 'from you', and *δεyrki, mənki* (du. 2) (but *bīki*).

In Soqoṭri personal suffixes are very rarely suffixed directly to nouns or verbs (cf. Possession in Soqoṭri, p. 419).

After a verb, the pronoun is usually suffixed to the accusative marker *t-* or a prep. SQa, SQb *śínək teh* 'I saw him', SQa *bídə ʿayhən* 'he lied to them'.

Interrogative Pronouns

> *mōn* (M, Ḥ), *mūn* (Hb.), *mān* (B), *mun* (Jib.), *mon* (S.) 'who?'
> *mun mən* (Jib.) 'which of?'
> *hɛ́sən* (M), *īníh* (Hb.), *hínɛ* (B), *hā́sən, háśən* (Ḥ), *ʾínɛ́* (Jib.), *ínɛm* (S.)
> 'what'?'

Nouns
Substantives have two genders (masculine and feminine), and three numbers (sin-
gular, dual and plural). Johnstone (1975: 112) claims that the dual is obsolete in
the MSAL, except in Soqotri; yet, it seems that nominal dual is still alive in Mehri
in the Yemen and Hobyōt.

Singular Nouns
. The main patterns are: 'CVC(V)C, 'CV:C(V)C, C(V)'CVC, C(V)'CV:C, in Jib-
bāli 'CV'CVC, and for the quadriliterals CVCCV:C, or 'CVCCVC in Soqotri:

> *ML dabh*, HHf *dɛbh* 'honey', *ḤL dəbš* 'date-syrup', *JL dɛbš* 'honey'; SQb *ʿans*
> 'elbow'
> *ML šāhar*, MQnB *šáhar, ḤL šahr* 'back'; MQnB, HHf, SQa *śxɔf, ML śəxōf, ḤL*
> *śxōf, JL núsub* 'milk'; ML *yəlēṭ, JL yálēṭ* 'mistake' (with a diphthongization
> in *ḤL: yəlawṭ*)
> MQnB, *ML kəṭmīm, ḤL kəṭmáym, JL kaṭmím*, SQa *káṭmehəm* 'fresh butter'

The feminine marker is the ending -(V̂)*t* in Mehri, Hobyōt, Baṭhari, Ḥarsūsi,
Jibbāli, and -*h* in Soqotri (but -*t* occurs at the dual and plural). The vowel preced-
ing the morpheme is /o/, /u/, /i/, /ə/ (long or short, according to the phonological
system of the language):

> JL *ngɔst* 'pollution'
> MQn *yagēnốt, ML yəgənōt, JL yɛbgɔ́t*, SML *ʿəwgínoh* 'girl'
> HHf *yɔgīt* 'big girl'
> MQn, *ML rēśīt, ḤL rəśēt* 'snake'
> SQb *yáṣəh* (du. *yaṣéti*) 'woman'
> MQn *ḥarmēt, JL ḥarmét* 'woman'
> JL *ṣədfét* 'chance'
> MQn *kənəmī́t, ML kənəmūt*, BM *kənəmōt, JL šínít* 'louse'

In Soqotri there exists also a feminine form marked by a vocalic opposition:
SQa *ṭáhrər* (m.), *ṭáhrer* (f.) 'wild goat', *síbœb* (m.), *síbib* (f.) 'old'.
In Mehri, Baṭhari, Ḥarsūsi and Jibbāli, some feminine nouns (borrowings from
Arabic) have an -*h* ending:

> MQn *makīnah* 'motor', BM *ḥeśmeh* (but B (*ML*) *ḥəśmə́t*) 'honor', *ḤL kāməh*
> 'measure', *ML θáwrəh, JL θórəh* 'revolution'.

Dual
The dual marker for nouns is the suffix -*i*. In Mehri, Hobyōt, Ḥarsūsi and Jibbāli nouns are usually followed by the numeral 2. The speakers do not consider this -*i* as a nominal suffix, but as a numeral prefix; in MQn /ḥarmēti-trīt/ 'two women' is pronounced [ḥarmḗt-itrī́t]. In Soqoṭri, the numeral is usually omitted: SQb *fərḥáṣi d-bḗrki* '(the two) articulations of (the two) knees'. In Mehri, Hobyōt, Ḥarsūsi and Jibbāli some duals function as plurals (cf. Johnstone 1975: 113).

Plural
As in all the languages of the South Semitic group, the MSAL have internal and external plurals. A few plurals are suppletive plurals.
      In all languages, one singular noun may have several plural forms: ML (sg. *šəffáy*) *šəfōf, šəfáwwət, šəfū́tən* 'elbows'; HHf (sg. *śegerḗt*) *śigɔ́rtə, śəgēr* 'paths in a mountain'.

Internal Plurals
Johnstone (1975: 113) compares some of these plural patterns with Ethiopic rather than with Arabic.
      The singular pattern is modified but does not have an affix. The most common patterns are ((sg.)/pl.):
• CCV:C (plural of many feminine singulars)

    ML (*nəkṭāt*)/*nəkāṭ*, JL (*nəkṭɔ́t*)/*nkɔṭ* 'dots'
    HHf (*nɔbɔ́t*)/*nbéb*, JL (*nibbɔ́t*)/*nbéb* 'bees'

• CCV:CC, CCVCC (in Jibbāli CC′CV*b*CC), for quadriliterals (the long vowel may sometimes be diphthongized, or stressed (in Jibbāli only where *w* > *b*):

    MQnB (*mkaṭár*)/*mkáwṭər* 'caravans'
    ML, ḤL (*mənxāl, mánxəl*)/*mənōxəl*
    JL (*mənṣéf*)/*minébṣəf* 'mattresses'

      A very common internal plural for quadriliterals is based on a vocalic opposition in the last syllable: *i*/*e*, or *ə* (S.), (sg.) > *o*, *ɔ*/*u* (pl.).

    MQn, ML (*ḥənīd*)/*ḥənōd*, JL (*nid*)/*nud* 'waterskins'
    MQn, ML, ḤL (*nxərīr*)/ *nxərōr*, JL (*naxrér*)/*naxrɔ́r*, SQb (*náḥrər*)/*náḥrur* 'noses'
    HHf (*iḳéybīn*)/*iḳéybūn* 'scorpions'

      Some plural patterns correspond to Arabic plural of plural:

    ML (*xaf*)/*xəfáwf* 'hoofs' (Jib. *ɔxfɔ́f*); ḤL (*mōtən*)/*mətáwwən* 'flesh of backs' (cf. pl. ML *mətūn*, JL *motún*).

External Plurals
The singular pattern may or may not be modified, and the plural is marked by a suffixed and/or a prefixed morpheme.
• Suffixes -ᵛt and -(V)tə(n). Many feminine nouns, and some masculine nouns have this pattern:

ML (təmrīt)/təmártən 'ear lobes'
MQn (hangəlūt)/hangáltən 'jellyfish (p.)'
HHf (ḥɔ́rəm)/ḥayrɔ́mte 'roads'
SQa (réyᶜeh)/reᶜīhétən 'female herders'

• Suffix -t, -h/-t in Soqotri:

MQnB (gəmmōl)/gəmmōlət 'camel drivers'
HHf (ḳā́ṣər)/kʌṣ́ɔ́rt 'leopards'
ḤL (yərāb)/yə́rəbət 'sacks'
SQa (ṣáhrəh)/ṣáhrət 'sisters-in-law'

• Suffix -īn and -íhɔn (in Soqotri):

MQn (dənōb)/dənbīn 'tails'
ML (kərōṣ)/kərṣáyn HHf (kɛrɔ́ṣ)/kɛrṣīn 'mosquitoes'
JL (gífún)/ gəfənín 'tulchans'
SQb (ᶜɛ́yg)/ᶜɔgéhən 'men'
SHr (kɔᶜɔ̈d)/kuᶜdɛ́n 'camel-calves'

• Plurals with an m- prefix, and those with ᵓ-, with or without a suffix -t/-h (S.) masculine, and -tən feminine (cf. CA broken plurals m-CāCiC, ᵓCCāC, ᵓCCiCat):

ML (nīdɛ́x)/mənā́dəx 'smokes'
JL (kalbéṭ)/mḳálbəṭ 'turnings (on a path)'
HHt (bīr)/hābyōr 'wells'
ḤL (slēb)/həslōb 'weapons', (gawf)/həgwə́ft 'chests'
MQn (bōb)/ḥābwēbət 'doors'
ML (ḥirīt)/aḥyártən 'female donkeys'
JL (ṣ́ɔ́b)/ɛṣ́bét 'monitor lizards'
SQa (ḳódəher)/ᵓakdɔ̄rəh 'pots'

• In JL (cf. also Johnstone 1975: 113), some plurals with -i come from the dual. They are used (and felt) as plural:

JL lhóti 'cows', γagénəti 'girls', ḥérnəti 'mountains (dim.)'

Adjectives

Like nouns, adjectives have two genders, but the plural of many adjectives is often of common gender. Except in Soqoṭri where there is a dual for adjectives, adjectives in the other MSAL have only two numbers.

Usually, feminine is marked by a -t/-h ending added to the masculine form, but, in Soqoṭri, it may also be marked by a vocalic opposition: SQa *géʿəlhal, géʿəlhēl* 'round', *xɔbxɔ́b, xɔbxéb* 'clumsy'. It is very scarce in Mehri: MJahn *duwōl, diwōl* 'worn out (pl.)'.

In all the MSAL, there are feminine adjectives without a feminine marker: MQn *ḥanōb*, ML *nōb*, BM *nawb*, JL *um* 'big'; it is often the case for adjectives concerning only females: SQa *gáḥləl* 'pregnant', *íbši* 'gravid'.

Many adjectival patterns are common with nouns. The C(V)Cī/íC (or CVCáyC) pattern is, like in Arabic, more common with adjectives than with nouns: MQn, ḤL *dəwīl*, ML *dəwáyl* 'old'; MQn *səxīf*, ML *səxáyf*, JL *sxīf* 'idiot'; SQa *kaʿə́nhɛn* 'curved'.

Although in Mehri and Ḥarsūsi, only the passive participle functions as an adjective, there are some adjective patterns Cā/ōC əC (cf. Arabic CāCiC): ML, ḤL *ʾāgəz*, JL *ʿɔ́gəz* 'lazy'.

In Jibbāli, the participle with -*ún* (f. -*únt*) suffix also has an adjectival (and sometimes adverbial) function: JL *ṣəðrún, ṣəðrúnt* 'stiff', *rə́gfún* 'timid' (and 'shivery'); there are also some examples in HHf.

Some examples of adjectives, sg. m., f./(du. m., f.)/pl. m., f. (or common):

HHf *reḳḗḳ, reḳēḳət//riḳɔ́ḳ, riḳɔ́ḳtɛ* 'thin'; *fə́rḥun, fərḥə́nt//fərḥanīn, fərḥanintə* 'happy'; *ʿɔ́fər, ʿafɛrɔ́t//ʿāfər*
ML *ʾōfər, ʾáfərōt//ʾāfər*
B (ML) *ʿāfər, ʿafərḗt//ʿáfər*
ḤL *ʾáfər, ʾáfərōt//ʾáfər*
JL *ʿɔ́fər, ʿafirɔ́t//ʿafirḗtə*
SQa *ʿɛ́fər, ʿɛ́féroh/ʿɛ́fri, ʿɛ́fəróti/ʿɛ́firíhin, ʿɛferḗtən*
SJms gives a common pl. *ʿáfirḗtən*, 'red'.

In Jibbāli, Ḥarsūsi and mainly in Soqoṭri, the phrase: δ-/di- + impf./pf., often has an adjectival function (cf. Relative Clauses, p. 417): ḤL *δ-isdōd* 'θ(it is) sufficient'; JL *də-míźɔ́t* 'full (f.)'; SQa *di-škər, di-škērɔ́h/di-šakərɔ́, di-šakɔ́rtɔ́/di-škər* 'kind.'

Deictics

In all the MSAL (except Soqoṭri for demonstratives), there are deictic forms with an -*m* or -*n* ending (cf. adverbs).

Deictics Referring to Time

'now': M *ṣərōməh*, Hb. *nāṣʌnɔ*, B *nāṣərah*, Ḥ *nōṣəh, nōṣərəh*, Jib. *naʿṣ́ánu, náṣanu*, S. *náʿa*

Table 17.3   Deictics referring to persons and things (demonstratives)

	Near, 'this' (m., f./pl.)	Far, 'that' (m., f./pl.)
MY	dōm, dīməh/lyōm	dēk(əm), dīk(əm)/lyēk(əm)
ML	ðōməh, ðīməh/əlyōməh	ðákmah, ðǝ́kməh/əlyákməh
		ðēk, ðáyk/əlyēk
Hb.	ðɛn, ðin/lōn (HHf lɛ́nəh)	ðə́hun, ðíhun/lə́h(un)
B	ðánəməh, ðan, ðin/ílūn	
Ḥ	ðā, ðī; ðōn, ðénəh/lə́ʰ	ðēk, ðīk/lǝk or
	ðánəməh, ðánəməh/lə́ləməh (lə́nəməh)	ðākəməh, ə́kəməh/ʔə́ləməh
Jib.	ðɛ́nu, ðínu/iźénu	ðə́hun, ðúhun/iźǝhún (nearby)
		ðǝ́kun, ðúkun/iźə́k (further away)
S.	dəʰ, deʰ & dəš/dihi/lénha	dək, dəš/ diki/
	dǝ́dha, dídha/ə́lhaⁱ	dǝ́dbok, dídbok/ə́lbok§

Notes: † In some Soqoṭri *ḥa* and not *ha*. *dǝ́dha = də-d-h/ḥa* ⟨this-which/who-here⟩. One also
seldom finds *dǝ́dbo*ʰ. § *dǝ́dbok = də-d-bok* ⟨this-which/who-there⟩.

Table 17.4   Deictics referring to space

	Near, 'here'	Far, 'there'
M	boh, būm, bōm, bawməh	ḥʌlōk, ḥʌlə́kəməh
Hb.	boh, bōmə, būwə	ḥəloh, ḥɔlə́k, ḥɔlə́kəmə
Ḥ	būməh	ḥəlōk, ḥəlōkəməh
Jib.	bo, bun, bɪun	lhōn, lə́kun
S.	ha/ḥa, boʰ	bok

Note: In Soqoṭri *ha/ḥa* and *bo*ʰ are used in compounds: *lha/lḥa, lbo*ʰ 'here'; *diboh* /ʔid-boh/ 'to here';
as *boh* in MQn: *het lboh* 'bring here!'

'today': M *yemóh, yəmō*, Hb. *axɔ́r*, B *ḥōr*, Ḥ *yəmōh*, Jib. *šḥɔr, šher*, S. *ḥer*
'tomorrow': M *géhməh, gēhəmah*, Hb. *gémə*, B *gēhəmah*, Ḥ *gēhəməh*, Jib.
   ḳərérəh, S. *ḳerīri, ḳerérəh*
'yesterday': M *yemšī, yəmšē*, Hb. *ʔmši*, Jib. *ʔəmšín*, S. *ʔəmšín*

Anteriority and posteriority may be expressed with prepositions: 'before-' (M
fənə-, Jib. *fanɛ́-*, S. *féne-, fon-*) or 'after' (M *bād*, Jib., S. *baʕd*) plus temporal ad-
verbs: M *fənəmš*, Jib. *fanɛ́mšín* 'before yesterday'; M *bād gēhməh* 'after tomor-
row'.

Numerals

The numerals in the MSAL have phonological, morphological and syntactical
characteristics that distinguish them from Arabic and are of great interest for
Semitic comparatism (cf. Johnstone 1983: 225).

Cardinals

Table 17.5 Cardinal numbers

	MSr (*ML*) HHf (m./f.)	*ḤL* (m./f.)	*JL* (m./f.)	SQb (SQa) (m./f.)
1	ṭāt/ṭīt (ṭāṭ/ṭáyṭ) ṭat/ṭéyt	ṭād/ṭət	ṭad/ṭit	ṭɔd/ṭéyʰ (ṭɔd/ṭah)
2	troh/trīt (θərō, θroh/θráyt, θrɛt) θro, θroh/θərīt	θərō/θərə́t	θroh/θrət	trøh/trih (trøh/treh)
3	śhalét/śyatīt (śhəlīθ/śāθáyt) śhəlóθ/śhaθéyt	śəláyś/śāf(θ)áyt	śhəléθ/śɔθét	śéleh/śéʿtəh (śíleh/śɔ́ytəh)
4	hárba/ərbōt (árba/ərbōt) ʾɔ́rbaʿ/ʾərbʿáwt	ʾōrba/rəbōt	ʾórbaʿ/ʾərbaʿə́t	ʾórbɛ ʿ/ʾírbaʿ (ʾérbē ʿ/ʾərbʌ́ʿah)
5	xáyməh/xmōh (xáyməh/xəmmōh) xāməh/xɔmmóh	xáyməh/xəmmōh	xīš/xōš	ḥīmeh/ḥóyməh (xɔ̄məh/xɔ̄məyʰ)
6	hett/yittīt (hət/yəṭīt) het/htet	háttəh/yəṭēt	šét/štət	yháʿt/hītəh (yɔ́ʿt/yētəh)
7	hōba/yibéyt (hōba/yəbáyt) hōba/hebíʿat	hōba/həbáyt	šō ʿ/šabʿə́t	yhōbəʿ/híbʿə (yēbəʿ/yēbəʿəh)
8	tmɔ̄ni/təmənēt (θmōni/θəmənyēt) θemēni/θemēnit	θəmōni/θəmənēt	θōni/θīnə́t	témɔni/téməneh (təméni/təmānəh)
9	sɛʾ/séyt (sɛ̄/sāt) sɔ ʿ/sáʿet	sɛ̄/sāʾáyt, sə ʿáyt	sɔ ʿ/saʿét	sɛ ʿ/séʿeh (sa ʿ/séʿəh)
10	ɔ́śər/áśərīt (ʿɔ́śər/ʿáśərīt) ʿɔ́śər/ʿaśərīt	ʿɔ́śər/ʿaśərēt	ʿɔ́śər/ʿəśírét	ʿáśər/ʿeśéreh (ʿáśər/ʿeśīreh)

The numbers 1 and 2 are adjectives, and 2 follows the noun in the dual. For 3–10, masculine numerals count feminine nouns, and feminine numerals masculine nouns. They are usually followed by nouns in the plural form, and above 13 the noun is either plural or singular. After 12, 22, 32, etc., the noun may be in the dual: SQa *ʿeśīreh wᵘ - trøh śhéri* ⟨10 and-2 month (du.)⟩ 'twelve months'.

In all MSAL, numerals used after 10 are usually Arabic borrowings. But some old bedouin speakers still use the MSAL's number system above 10, especially for counting livestock. This system is as follows:

Number and noun agree in gender from 11 to 19. From 11 onwards the structure of numbers is: tens + "and" + units.

ML 11 *ắɛ̆ərīt w- ṭāt (HHf *aɛ̆ərīt w-ṭat) (+ m.), *ōɛ̆ər w-ṭáyt (+ f.)
  12 *ắɛ̆ərīt w-θrōh (HHf *aɛ̆ərīt w-θroh), *ōɛ̆ər w-θráyt
  13 *ắɛ̆ərīt wə-ɛ̆āθáyt (HHf *aɛ̆ərīt w-ɛ̆aθéyt), *ōɛ̆ər wə-ɛ̆halīθ

The tens, when not borrowed from Arabic, are made by suffixation of *-ah*, *-oh*, *-øh*.

  20 ML *áɛ̆ərəh, SQa *áɛ̆røh, but MQn āɛ̆rīn, and JL *éɛ̆əri
  30 JL ɛ̆əlóh, SQa ɛ̆eláh, but ML ɛ̆əlāθáyn

In Soqoṭri, from 30 onwards in some dialects and 40 in others, the multiples of 10 are constructed as follows: units + 10 (pl.):

  30 SL ɛ̆ēle *eɛ̆árhen ⟨three tens⟩
  SQaB 40 *árba* *aɛ̆ắrən
  50 xέymʌ *aɛ̆ắrən
  60 yá*t *aɛ̆ắrən
  70 yábʌ* *aɛ̆ắrən
  80 témenε *aɛ̆ắrən
  90 sε* *aɛ̆ắrən
  100 MQn miyēt; ML əmyīt; HHf míyut, JL mút; SQa mít
  1,000 MQn *elf; ML *ēf; JL *ɔf; SQb *alf

To count livestock, bedouin use specific items:

ML ṭahōb 'herd of about 100 camels'; JL ṭɔ́hɔ́b 'herd of 15 camels (and upwards)'; SQaB méḥbər '100 head of cattle'; treh mεḥbéri '200'.

In Mehri, Hobyōt, Jibbāli and partially in Ḥarsūsi (Johnstone 1975: 115–116), specific numerals are used for counting days above two. The noun 'day' (f.) is in the singular form:

	ML	HHf	JL
3 days	ɛ̆ēləθ yūm	ɛ̆helt yōm	ɛ̆éləθ ēm
4	rība –	rība* –	rī* –
5	xáymǝh –	xām –	xīɛ̆ –
6	ɛ̆īdǝt –	hett –	ɛ̆εt –
7	ɛ̆ība –	ɛ̆ēba* –	ɛ̆ī* –
8	θīmǝn –	θēmǝn –	θīn –
9	tīsa –	tēsa* –	tǝs* –
10	*āyɛ̆ər –	*éɛ̆ər –	*áɛ̆ər –

Ordinals

The ordinals in *ML* and *ḤL* are formed on the pattern of the *nomen agentis*. Some ordinals are based on the ancient root of number; in SL, the ordinals, beyond *néšher* 'first', are formed by the numeral preceded by *di-*: *di-h(y)óbeh* ⟨which (is) seven⟩ 'seventh'. In *JL*, the data are not complete (cf. Johnstone 1975: 116).

Table 17.6   Ordinal numbers

	ML (m./f.)	*ḤL* (m./f.)	*JL* (m./f.)
1st	ḥāwīl/ḥāwəlīt	ḥāwīl/ḥāwəlēt	ʾénfí/ʾénfēt
2nd	məšēyər/məšəyərēt	məšāyər/məšəyərēt	mš/šáyər/ ⟨γyr⟩ 'other'
3rd	śōləθ/śəwθīt	śēləś/śēlśət	
4th	rōbaʾ/rəbáyt	rēbaʾ/rēbat	
5th	xōməs/xəmhēt	xāməh/xāmhət	xîs/
6th	šōdəs/šədθēt	hētt/hēttət	
7th	sōbəʿ/səbáyt	hēbaʾ/hēbaʾt	
8th	θōmən/θəmənēt	θēmən/θēmnət	
9th	tōsaʾ/təsáyt	tēsaʾ/tēsaʾt	
10th	ʾáyśər/ʾāśərēt	ʾāśər/ʾāśərt	

Verbs

Root and Derived Themes

Like all Semitic languages, the MSAL have a verbal basic theme and derived themes. There is also a vocalic internal passive.

The Basic Theme

There are two different types of basic verbs, based on semantic and morphological criteria. The patterns of active verbs (Johnstone's type A) are: $CəCō/ūC$, $CəCɔ́C$, and that of middle verbs (state verbs, middle passive verbs, verbs whose subject is also the patient; Johnstone's type B) are: $CīCəC$, $CéCəC$. All MSAL have, with some verbs of type A, an internal vocalic passive, whose patterns are: $CəCē/īC$, $Cí/éCəC$, $Ci/ī/CéC$ in MQn. This is a very dynamic passive formation in Soqoṭri.

The Derived Themes

As in all Semitic languages, the derived themes are characterized by internal vocalic modification, infixation (*t-*), and prefixation (*h-/ʾ-*, *š/ś-*, *n-*), but no derived theme is formed by gemination.

   A prefixed vowel may occur in the theme with internal modification. For each verb, the prefixed morpheme *h-/ʾ-* cannot be found in all the forms of the conjugation.

   In some cases, type A and B verbs have a different pattern for the same derived theme.

Table 17.7   Verbal themes ($\bar{o}/\bar{u}$ in Mehri, é/í in *JL* and Soqoṭri)

	Mehri	ḤL	c/e J	S.
Simple verb				
A	CəCóC	CəCóC	Cɔ́CɔC/CəCɔ́C	Cɔ́CəC
B	CéCəC	CéCəC	CéCəC	CéCəC
Passive	CəCéC	CəCéC	CəCéC	CéCəC
Derived themes				
Intern. modif.	(a)CóCəC	(a)CéCəC	(e)CóCəC/Cɔ́CəC	Cɔ́CəC,CéCəC
-*t*- infix (A)	Cã/átCəC	CátCəC	Cɔ́tCəC/Cɔ́CCəC	Cɔ́tCəC
(B)	əCtəCóC	əCtəCóC	əCtəCéC	
Prefix *h/ʾ*-	(hə)CCóC	(a)CCóC	(e)/(ε)CCéC	ɔ́CCəC
Prefix *š*- (A)	šəCCóC	šəCCóC	š/šəCCéC	šɔ́CCəC
(B)	šəCéCəC	šəCɔ́CəC	š/šəCéCəC	šəCéCəC
Prefix *n*-	(ə)nCéCəC	(ə)nCéCəC	(ə)nCéCəC	(ə)nCéCəC
Quadriconsonantal	(ə)nCəCCóC	(ə)nCəCCóC	(ə)nCəCéCéC	(ə)nCéCCə

• Theme with internal modification (and possibly vocalic preformant):

In the Mehri of Mahra, the derived theme does not have a prefix, and in the Mehri of Dhofar, in Ḥarsūsi and Jibbāli, it is often missing when C_1 is a voiceless consonant (ejective consonants are considered as voiced consonants).

In all languages, the imperfect has an augmentative -*(ə)n* (perf./imperf./subj. sg. 3m.):

ML, MQn	(*a*)CóCəC/yəCáCCən/yə/lCóCəC (+ variants)
ḤL	(*a*)CéCəC/yəCéCəCən/yəCéCəC
JL	(*e/ε*)Cɔ́CəC/iCɔ́CCən/yCɔ́CəC (ó or ɔ́) (+ variants)
S.	Cɔ́CəC/iCɔ́Cən/liCɔ́CəC (and CéCəC/yəCéCəCən/
	li-CéCəC)

The classification of these verbs as 'intensive–conative' (Johnstone 1975, 1981) does not seem to hold when one considers the semantic value of the verbs in all languages. When the form is derived from a simple verbal form, it is always transitive and the meaning is usually factitive or causative. When no corresponding simple form exists, the derived verb can be transitive or intransitive; some are denominative:

MQnB *rókəb/irákbən/lərōkəb = ML arōkəb = ḤL arēkəb = JL erókub* 'to put (a pot) on the fire' (*rékəb* (type B, trans.) 'to ride')
MQnB *wūti/iwáṭiyən = ḤL awēṭa = JL ōṭiʾ* 'to bring down'
ML MQn ṣōli/iṣályən/lṣōli = ML aṣōli = ḤL aṣāl = JL eṣóli = SJMS ṣáli 'to pray'
JL egódəl/gódələn/ygódəl 'to tie, chain (a prisoner)'
SQa *ḥōbi/iḥōbiən = ML ḥōbi* '(baby) to crawl'
SJms *zómil/yzómilən* 'to saddle'

In Mehri, Jibbāli, Soqoṭri some verbs have a different pattern:

SQa *gedəḥ/igīdḥən/lígdaḥ* 'to come', *ḥīsəb/iḥéʾsbən/liḥsáb* 'to count', *šī/tšīn* (sg. 2f.)/ *tšēi* (sg. 2f.) 'to listen'
ML *šēwər/yəšáwrən/yəšēwər* 'to consult'

In Jibbāli, verbs with C_2 = *h* and *x* "have both the *eCóCəC* and *eCCéC* pattern" (Johnstone 1981: xxi).

In all MSAL there are also some idiosyncratic verbs of both types (ibid.: xxv–xxvi).

• Theme with infix *-t-*:
In all languages, except Soqoṭri, there are two derived forms with *-t-*:

M, Ḥ	(*a*, *ə*)*CátCəC/yəCtəCū(ō)C/l/yəCtī(ē)CəC* (type A verbs)
	(*a*, *ə*)*CtəCū/ōC/yəCtəCī(ē)Cən/yəCtəCū(ō)C* (type B)
Jib.	*CɔtCəC/yəCtéCɔC/yəCtéCəC* (verbs type A) = Hb.
	əCtəCéC/yəCtəCíCən/yəCtəCɔC (type B). But in Jibbāli some verbs are irregular (cf. Johnstone 1981: xxiii–xxiv)
S.	*CɔtCəC/iCtɔCəC*

Let us remember here that in Mehri, Ḥarsūsi and Jibbāli, *-t-* induces gemination and gemination shifts within the word.

The suffix *-n* occurs in the imperfect of type B verbs.

This form with infix *-t-* (in reference to Arabic) was classified as causative and reflexive, but the value is more often that of a middle verb, not a causative. The derived verbs do not always correspond to a simple theme:

MQn *stəlūb/istəlībən/lstəlōb* 'to be armed, carry arms' = *ML əstəlūb*
ML kətháwl = ḤL əktəhōl = JL ekthél 'to apply kohl'
B (*ML*) *yəmtēzhən* 'he jokes'
HHf *ihtámʿan* 'he listens'(*hēmaʿ* (type B) 'he hears')
ML šētəm (= HHf *šətɔ̃m* another pattern) = *ḤL šōtəm = JL šɔtém* 'to buy' (*šɛm* 'to sell')
JL *fɔtgər/yaftégɔr/yaftégər* 'to burst; to be a great liar' (*fɔgɔr*, type A, 'to tell a lie'), *aftégér* 'to be proved to be a liar' (*efgér*, type B, 'to prove someone a liar')
S (*ML*) *ɔstaʾ* ⟨swy⟩ 'to be ready', SQa *šthédən* 'we got excited' (SL *šéhed* 'fear'), *kɔtnə* 'to eat' (*kānə* 'to feed')

Some of these derived verbs have a reciprocal value:

Hb. *əntáwḥəm = ML əntáwḥəm = JL əntɔ̃ḥ* (pl. 3m.) = S (*ML*) *əntɔ́ḥo* (du. 3m.) 'they fought each other'
SQa *yištáʿbɵ* 'they bit each other (du. 3m.)' (*šɔ̃ʿəb* 'to bite')

- Theme with preformant *h-/ʾ*:

ML, MQn	*həCCū(ō)C/yəhəCCū(ō)C/yə/lháCCəC*
ḤL	*(a)CCōC/yaCCōC/yəháCCəC*
JL	*(e/ɛ)C₁C₂é(í)C₃/íC₁C₁é(í)C₂ɔ́C₃/yéC₁C₂əC₃, yéC₁əC₂C₃*
S.	*ɔ́CCəC/yəCéCɔC(ən)/lɔ́CCəC*

In Mehri (specially in the Mehri of the Yemen), the derivative morpheme *h-* is often missing at the suffix conjugation and indicative prefix conjugation but is always present in the subjunctive.

In Jibbāli, the conjugation may induce the gemination of one of the radical consonants (C_1 or C_2) at some persons of the imperfect and perfect.

In Soqoṭri, the imperfect may have the augmentative *-n*.

The most common meaning of this derived form is causative, or factitive:

MQn *frōk/yəfrōk/ləháfrək* 'to frighten' (*fírək*, type B, 'to be afraid')
ML xlūf/yəxlōf/yəháxləf 'to leave behind' (*xayləf*, type B, 'to succeed')
ḤL akfōd/yakfōd/yəhákfəd 'to put down' (*kəfōd* 'to descend') = M
JL eshēk 'to make someone grind fine' (*sḥak* 'to grind fine'),
   ebšél/yēššɔ́l/yébšəl 'to cook' (*bếšəl*, type B, 'to be cooked') = *ML həb-
   hōl/yəhəbhōl/yəhábhəl* (*bəhēl*, passive) = *ḤL abhōl/yabhōl/yəhábhəl*
   (*bəhēl*) = SJms *ʾɔ́bhəl*, passive *íbhal*

The value can also be middle, reflexive or middle passive:

MQnB = *ML hənṣ̌ūr* 'to have had enough sleep', *ML haṣráwb* = *JL eṣréb* 'to be
   ill' = *ḤL aṣráwb* '(woman) to feel labour pains'
SQa *ʾesēləmɔn* 'we greet each other' (du. 1, impf. with suffix *-n*)

- Theme with preformant *š-* (*š̌-* in cJ):
As with the *-t-* derived form, in all languages, there is a different pattern for type A and B verbs.

M, Ḥ	*šəCCū/ōC/l/yašəCCū/ōC/yašəCCáC* (A)
M	*šəCēCəC/yašəCCáCən/yašəCēCəC* (B)
Ḥ	*šəCɔ́CəC/yašəCCáCən/yašəCɔ́CəC* (B)
Jib.	*šəCCéC/yašəCéCɔ́C/yašéCCəC* (A)
	šəCéCəC/yašCéCəCən/yašCCé/éC (B)
S.	*š̌ɔ́CCəC/yašéCCɔC/lešCéCəC*
	šəCáCəC/yašCéCəCən/lešCCéC (B)

This form is considered as causative reflexive, but it also has other values, the most frequent being middle or passive. There are also some denominative verbs:

MQnB *šifkáwt* 'she got married' (*fūk* 'he gave in marriage') = ḤL *šəfáwk*
HHf *šxábər/išxabūr/yəšxábər* 'to inquire' = MQn *šəxbōr* = ML = JL *šxəbér* =
    S(ML) *šhábər*
ML *šəxṭū* 'to be injured'= ḤL *šəxṭō* = eJ *šəxṭe*, cJ *šxəṭe*
SQa *šəṭéyləm/yišṭéyləmən/ləšṭáləm* 'to dinner at night' (cf. Arabic ⟨ðlm⟩ 'dark-
    ness')
MQnB *šənšūk* 'to take a snuff' (*ʾnšīkat* 'pinch of snuff')

• Theme with preformant -*n*:
    All the verbs are intransitive. It mainly concerns quadri-consonantal verbs.
    The patterns are MQn *naCiCūC*, JL *ənCéCəC* and *ənCéCéC*, S. *nCáCiC* for
tri-consonantal verbs:

MQn *ʾmbếi/imbếin/ləmbếi* 'to bleat' (MJahn *bˤy* 'to bleat')
ḤL *ənkáyṭa* 'to be thirsty; to be cut' (*káwṭa* ⟨ktˤ⟩ 'to be tired, to cut', *keṭeyāt*
    'thirst')
JL *ənḥérək* 'to move' (= *aḥtérék*); SL *nḥádid* 'to thunder'

and for quadri-consonantal verbs ML, ḤL *ənCəCCōC*; JL (*ə*)*nCəCCíC* and
(*ə*)*nCəC(é)CéC*; S. *ənCáCəC*.
    The meanings are middle, reflexive, reciprocal and sometimes intensive:

ML *ənḥaṭmūl* 'to be smashed' (= eJ (ML) *nḥaṭmíl*) = ḤL *ənḥaṭəmōl/*
    yənḥaṭəmōl/yənḥaṭməl (*ḥaṭəməl* 'to smash')
JL *əndayдáy* 'to be tickled, to tickle each other' (*edayдáy* 'to tickle')
SL *enḳárḳer* 'to be dusty' (*ḳárḳahar* 'dust')

    In Jibbāli, the form is used for verbs of color: JL *ənkérkím* (*kerkúm* 'yellow
dye') 'to become yellow' = SL *inkórkim*; *nˤífírér* 'to become red' (*ˤófər* 'red').

Conjugations
There is one suffix conjugation (perfect value) and two, sometimes three, prefix
conjugations (indicative (imperfect value) and subjunctive; Jibbāli, the Mehri of
Oman, and some verbs in Hobyōt have a particular conditional form).
    The verb has three numbers: singular, plural and, except for the Mehri language
of western Mahra, dual including the first person. In Jibbāli, Mehri of Mahra, and
in Hobyōt, the dual is becoming obsolete. In Mahra, the young speakers of Mehri
or Hobyōt use plural more frequently than dual.
    The first two persons (sg., du.) and the 2nd pl. of the perfect have the suffix /k/.
    The vocalic pattern of the subjunctive differs from the imperfect and has a prefix
l- (for sg. 1c. du. 1c. in all the MSAL, and for sg. 3m., pl. 3m. in some languages).
    Active verbs (type A), and middle verbs (type B) have a specific vocalic pat-
tern in the basic theme.
    There exists a vocalic passive for the basic theme of type A verbs and for some

derived themes.

The imperfect of some derived verbs has an -*n* suffix.

The future, in the MSAL (except in Soqoṭri), has a special form that varies according to the language.

Table 17.8   Perfect suffixes

		M + Hb. + Ḥ	Jibbāli	Soqoṭri
Sg.	1c.	-k	-k	-k
	2m.	-k	-k	-k
	f.	-š	-š	-š
	3m.	—	—	—
	f.	-ōt/ūt/ēt	-ɔt	-oh
Du.	1c.	-ki	-ši	-ki
	2c.	-ki	-ši	-ki
	3m.	-ō/ē	-ó	-o
	f.	-tō/tē	-tó	-to
Pl.	1c.	-ən	-ən	-ən
	2m.	-kəm	-kum	-kən
	f.	-kən	-kən	-kən
	3m.	-əm/V	—	-V
	f.	—	—	—

Notes: Dialectal variants in brackets. V = internal vowel change.

Table 17.9   Imperfect affixes

		M + Hb. + Ḥ	Jibbāli	Soqoṭri
Sg.	1c.	ə/ɛ-	ə-	ə-
	2m.	t-	t-	t-
	f.	t- … V/i	t- … V	t- … V
	3m.	yə/i-	yə-	i-
	f.	t-	t-	t-
Du.	1c.	ə- … -o	ə- … -o/-ɔ	ə- … -o
	2c.	t- … -o	t- … -o/-ɔ	t- … -o
	3m.	y-/i- … -o	yə- … -o/-ɔ	i- … -o
	f.	t- … -o	t- … -o/-ɔ	t- … -o
Pl.	1c.	n-	n-	n-
	2m.	t- … V-əm	t-	t- … V
	f.	t- … -ən	t- … -ən	t- … -ən
	3m.	y-/i- … V-əm	y-	i- … V
	f.	t- … -ən	t- … -ən	t- … -ən

Affixes of the *-n* suffix imperfect and conditional, for Mehri (Dhofar), and some verbs in Hobyōt, Jibbāli:

	Singular	Dual	Plural
1c.	ʾ-/l- ... -ən	ʾ-/l- ... -ay-ən	n- ... -ən
2m.	t- ... -ən	t- ... -ay-ən	t- ... -ən
f.	t- ... -ən	t- ... -ay-ən	t- ... -ən
3m.	y- ... -ən	y- ... -ay-ən	y- ... -ən
f.	t- ... -ən	t- ... -ay-ən	t- ... -ən

Subjunctive and Conditional
The subjunctive in all the MSAL (except for some derived verbs) differs from the imperfect. The conjugation of the conditional is derived from the subjunctive; the whole paradigm has an *n-* suffix.

In the subjunctive and conditional (except in Ḥarsūsi), an *l-* prefix is added to all vocalic prefixes: sg. 1c. and du. 1c., and in some Mehri dialects of the Mahra and in Soqoṭri sg. 3m., du. 3m. and pl. 3m (/y/ is realized as a vocalic [i]).

Non-occurrence of Prefixes
In Jibbāli and Soqoṭri, all the personal prefixes, or the *t-* prefix only, may be absent in the conjugation of some verbs: some derived verbs, simple quadriliteral verbs, simple hollow verbs and in the passive of simple and derived verbs. With these types of verbs, the prefix marker *l-* occurs in the whole paradigm of the subjunctive (and in the conditional, in Jibbāli).

Conjugations

Table 17.10   Simple verb (type A): active voice, perfect

		MQn (*ML*) 'to put some- thing straight'	HHf 'to under- stand'	*ḤL* 'to write'	*JL* 'to be able'	SQb 'to under- stand'
Sg.	1c.	r(ə)kɔ́zk	γʌrébək	kətōbək	ḳɔ́dɔ́rk	ʿɔ́rɔbk
	2m.	r(ə)kɔ́zk	γʌrébək	kətōbək	ḳɔ́dɔ́rk	ʿɔ́rɔbk
	f.	r(ə)kézš	γʌrébəš	kətōbəš	ḳɔ́dɔ́rš/š̌	ʿɔ́rɔbš
	3m.	r(ə)kūz	γʌrōb	kətōb	ḳɔ́dɔ́r	ʿɔ́rɔb
	f.	r(ə)kəzūt	γʌrəbōt	kətəbōt	ḳɔ́dɔ́rɔ́t	ʿɔréboh
Du.	1c.	(rəkɔ́zki)	γʌrōbki	kətōb(ə)ki	ḳɔ́dɔ́rš/š̌i	ʿɔrébki
	2c.	(rəkɔ́zki)	γʌrōbki	kətōb(ə)ki	ḳɔ́dɔ́rš/š̌i	ʿɔrébki
	3m.	(rəkəzō)	γʌrébo	kətəbō	ḳɔ́dɔ́rɔ́	ʿɔrébo
	f.	(rəkəztō)	γʌrébo	kətəbtō	ḳɔ́dɔ́rtɔ́	ʿɔrébəto
Pl.	1c.	r(ə)kūzən	γʌrɔ́bən	kətōbən	ḳɔ́dɔ́rən	ʿɔrɔ́bən
	2m.	r(ə)kɔ́zkəm	γʌrɔ́bkum	kətōbkəm	ḳɔ́dɔ́rkum	ʿɔrɔ́bkən
	f.	r(ə)kɔ́zkən	γʌrɔ́bkən	kətōbkən	ḳɔ́dɔ́rkən	ʿɔrɔ́bkən
	3m.	rkūzəm (rkáwz)	γʌrɔ́bum	kətōbəm	ḳɔ́dɔ́r	ʿɔ́rub
	f.	r(ə)kūz	γʌrōb	kətōb	ḳɔ́dɔ́r	ʿɔ́rɔb

Table 17.11   Simple verb (type A): active voice, imperfect

		MHf 'to break'	HHf 'to understand'	*ḤL* 'to strike'	*JL* 'to be able'	SQb 'to go down'
Sg.	1c.	εθōbər	εγɔ́rəb	əlōbəd	əḳɔ́dər	əḳɔ́fəd
	2m.	təθōbər	tyɔ́rəb	təlōbəd	tḳɔ́dər	təḳɔ́fəd
	f.	təθībər	tyḗrəb	təlībəd	tḳídər	təḳɔ́fid
	3m.	yəθōbər	yiγɔ́rəb	yəlōbəd	yḳɔ́dər	iḳɔ́fəd
	f.	təθōbər	tyɔ́rəb	təlōbəd	tḳɔ́dər	təḳɔ́fəd
Du.	1c.	εθbərō	εγɔ́rbo	əlbədō	əḳɔ́dɔ́rɔ́	əḳáfədo
	2c.	təθbərō	tyɔ́rbo	təlbədō	tḳədérɔ́	təḳáfədo
	3m.	yəθbərō	yiγɔ́rbo	yəlbədō	yḳɔ́dɔ́rɔ́	iḳáfədo
	f.	təθbərō	tyɔ́rbo	təlbədō	tḳɔ́dɔ́rɔ́	təḳáfədo
Pl.	1c.	nəθōbər	nyɔ́rəb	nəlōbəd	nəḳɔ́dər	nḳɔ́fəd
	2m.	təθábrəm	tyɔ́rbum	təlōbədəm	təḳɔ́dər	təḳɔ́fəd
	f.	təθábrən	tyɔ́rbən	təlōbədən	təḳɔ́dərən	təḳɔ́fədən
	3m.	yəθábrəm	yiγɔ́rbum	yəlōbədəm	yḳɔ́dər	iḳɔ́fəd
	f.	təθábrən	tyɔ́rbən	təlōbədən	təḳɔ́dərən	təḳɔ́fədən

Simple verb (type A): Active voice   *Perfect*   See Table 17.10, p. 403. In all MSAL (with very few exceptions in MQn) sg. 3m. = pl. 3f. and in Jibbāli sg. 3m. = pl. 3m. = pl. 3f.

In Soqoṭri, at sg. 3f., the same verb may have -v*h*, and -v*t*: SQa *ḥelībøh* or *helībøt* 'it (sg. f.) is milked'.

In Mehri and Ḥarsūsi, the vowel of the suffix at sg. 3f. and du. 3 is *ē* for passives and some derived measures.

Imperfect   See Table 17.11. The vowel change occurs for Soqoṭri at pl. 3m. In Mehri (Mahra and Dhofar), sg. 2f. may be *t-* ... V or *t-* ... V-*i*, depending on the type of verb, but many verbs have both conjugations. In HHf pl. 2,3m. are *tə-, yə-* ... -*um*. In all MSAL, pl. 2f. = pl. 3f.; in Jibbāli and Soqoṭri, pl. 2m. = sg. 2m = sg. 3f.

Subjunctive   See Table 17.12, p. 405. In *JL* (Johnstone 1981: xvii), the subjunctive dual differs from the imperfect dual (indicative), in Jibbāli (Johnstone 1975: 109) the indicative and subjunctive duals are identical.

Imperative   Except in Soqoṭri, the imperative form is identical to the subjunctive, without the prefix. In Mehri, sg. 2f. always has the suffix -*i*.

In Soqoṭri, command is expressed by the indicative imperfect and the prohibitive by the subjunctive form after a negative particle.

Conditional   See Table 17.13, p. 405. The conditional does not occur in the Mehri of Mahra or in Soqoṭri. In Mehri (Dhofar), Jibbāli, it occurs rarely and it is limited to unreal hypothetical conditional sentences, the protasis of which is introduced by *lu* (*ML*), *wili* (HHf). In Ḥarsūsi and Hobyōt, it is limited, under the same conditions, to certain verbs.

The prefixes are those of the indicative imperfect, the suffix is, in the whole paradigm, -*n*.

Table 17.12 Subjunctive

		MQn (*ML*)	HHf	*ḤL*	*JL*	SQbH 'to know'
Sg.	1c.	lərkēz	lyʌrēb	əlbēd	lḳ́ədər	lə'árəb
	2m.	tərkēz	tyʌrēb	təlbēd	tḳ́ədər	tə'árəb
	f.	tərkēz (tərkēzi)	tyʌrēb	təlbēd	tḱídər	tə'árib
	3m.	lərkēz (yərkēz)	yiyʌrēb	yəlbēd	yḳ́ədər	lə'árəb
	f.	tərkēz	tyʌrēb	təlbēd	tḳ́ədər	tə'áreb
Du.	1c.	(ərəkzō)	[?]	əlbədō	ləḳ́ədrɔ́	lə'rɔ́bo
	2c.	(tərəkzō)	[?]	təlbədō	təḳ́dɔ́rɔ́	tə'rɔ́bo
	3m.	(yərəkzō)	[?]	yəlbədō	yəḳ́dɔ́rɔ́	lə'rɔ́bo
	f.	(tərəkzō)	[?]	təlbədō	təḳ́dɔ́rɔ́	tə'rɔ́bo
Pl.	1c.	nərkēz	nyʌrēb	nəlbēd	nəḱdér	nə'áreb
	2m.	tərkēzəm	tyʌrēbum	təlbɔ́dəm	təḳ́dɔ́r	tə'áreb
	f.	tərkēzən	tyʌrēbən	təlbɔ́dən	təḳ́dérən	tə'árebən
	3m.	lərkēzəm	yiyʌrēbum	yəlbɔ́dəm	yəḳ́dɔ́r	lə'árib
	f.	tərkēzən	tyɔ̄rbən	təlbɔ́dən	təḳ́dérən	tə'árebən

Table 17.13 Conditional

		ML (type A) 'to put something straight'	*ML* (type B) 'to get broken'	HHf 'to be, become'	Jibbāli 'to be able'
Sg.	1c.	lərkēzən	ləθbīrən	lkīnən	ləḱdírən
	2m.	tərkēzən	təθbīrən	tkīnən	təḱdírən
	f.	tərkēzən	təθbīrən	tkūnən	təḱdírən
	3m.	yərkēzən	yəθbīrən	ykūnən	yəḱdírən
	f.	tərkēzən	təθbīrən	tkīnən	təḱdírən
Du.	1c.	lərkəzáyən	ləθbəráyən	[?]	nəḱdɔ́rɔ́n
	2c.	tərkəzáyən	təθbəráyən	[?]	təḱdɔ́rɔ́n
	3m.	yərkəzáyən	yəθbəráyən	[?]	yəḱdɔ́rɔ́n
	f.	tərkəzáyən	təθbəráyən	[?]	tɔḱdɔ́rɔ́n
Pl.	1c.	nərkəzáyən	nəθbīrən	nkūnən	nəḱdêrən
	2m.	tərkēzən	təθbīrən	tkīnən	təḱdérən
	f.	tərkēzən	təθbīrən	tkūnən	təḱdérən
	3m.	yərkēzən	yəθbīrən	ykīnən	yəḱdɔ́rɔ́n
	f.	tərkēzən	təθbīrən	tkūnən	nəḱdérən

The pattern of the simple verbs of type A, is like the subjunctive.

Simple verb (type B) *Perfect* See Table 17.14, p. 406. In Mehri sg. 3f. (type B) = sg. 3f. (type A). The conjugation of type B verbs in HHf (*θēbər*) and *ḤL* is the same as in Mehri. In *JL*, Johnstone gives *fɔ́δər* as a variant, in the entire paradigm of the verb.

Imperfect See Table 17.15, p. 406. In Mehri (*ML*), at pl. the conjugation of indicative type B is the same as the pl. passive voice (cf. Examples of the passive, p. 407).

Table 17.14   Simple verb (type B), perfect

		MHf (ML) 'to get broken'	JL 'to shiver with fear'	SQa 'to get broken'
Sg.	1c.	θɛ́brek (θɛ́brək)	féðərk	géšəlk
	2m.	θɛ́brek (θɛ́brək)	féðərk	géšəlk
	f.	θɛ́breš (θɛ́brəš)	féðərš/s̄	géšəlš
	3m.	θībər	féðər	géšəl
	f.	θəbrōt (θəbrūt)	fiðirɔ́t	géšələøh
Du.	1c.	θɛ́brəki	féðərš/s̄i	géšəlki
	2c.	θɛ́brəki	féðərš/s̄i	géšəlki
	3m.	θbərō (θəbrō)	féðérɔ́	géšələø
	f.	(θəbərtō)	féðértɔ́	géšəltø
Pl.	1c.	θɛ́brən	féðərən	géšələn
	2m.	θɛ́brəkəm (-bər-)	féðərkum	géšəlkən
	f.	θɛ́brəkən (-bər-)	féðərkən	géšəlkən
	3m.	θɛ́brəm	féðər	géšel
	f.	θībər	féðər	géšəl

Table 17.15   Simple verb (type B), imperfect

		MHf (ML)	JL	(SJms) 'to remember'
Sg	1c.	εθbōr (ə-)	əféðɔ́r	ədékɔr
	2m.	təθbōr	təféðɔ́r	tdékɔr
	f.	təθbēr (θəbáyri)	tfíðír	tdékir
	3m.	yəθbōr	yféðɔ́r	ydékɔr
	f.	təθbōr	təféðɔ́r	tdékɔr
Du.	1c.	(əθbərō)	nfəðérɔ́	[?]
	2c.	(təθbərō)	tfəðérɔ́	[?]
	3m.	(yəθbərō)	yfəðérɔ́	[?]
	f.	(təθbərō)	tfəðérɔ́	[?]
Pl.	1c.	nəθbōr	nféðɔ́r	ndékɔr
	2m.	təθbīrəm (təθbīr)	tféðér	tdékɔr
	f.	təθbōrən	tféðɔ́rən	tdékɔrən
	3m.	yəθbīrəm (yəθbīr)	yféðér	ydékər
	f.	təθbōrən	tféðɔ́rən	tdékɔrən

Table 17.16   Subjunctive conjugation in Jibbāli (JL)

	Singular	Dual	Plural
1c.	ləfðɔ́r	nfəðərɔ́	nəfðɔ́r
2m.	təfðɔ́r	tfəðərɔ́	təðfér
f.	təfðír	tfəðərɔ́	təfðɔ́rən
3m.	yəfðɔ́r	yfəðərɔ́	yəðfér
f.	təfðɔ́r	tfəðərɔ́	təfðɔ́rən

Subjunctive   See Table 17.16, p. 406. For type B, in Mehri, the subjunctive pattern is the same as the indicative with a *l-* prefix before some of the forms.

In Soqoṭri, it was not possible to elicit a full paradigm for the subjunctive forms of type B verbs.

The Passive
The vocalic passive form occurs in all MSAL. It is particularly frequent in Soqoṭri, which makes an important use of the impersonal passive.

The pattern of the passive of simple verbs is (pf./impf./subj.):

MQn	*CīCéC/iCīCéC/l CīCéC*
ML	*CəCēC/yəCCōC/yəCCōC*
JL	*(ε)CCíC/i/éCCɔ́C/yəCCɔ́C*
SQa	*CīCe/əC/CūCəC/lCCɔ́C*

Examples of the passive:

	active		::	passive	
MQn (*ML*)	*xʌlūk*		::	*xīlék/ixīlék/ (xəlūk :: xəlék/yəxlōk/ –)*	'to create'
	ləbūd		::	*lībéd (əwbūd :: derived form)*	'to strike'
HHf	*gelōd*		::	*gilēd/yəgəlód/yə́gəlod*	'to hit'
JL	*lɔ̄d*		::	*līd* ⟨lbd⟩	'to strike'
	śēm		::	*śím* ⟨śʾm⟩	'to sell'
	erṣɔ́ḳ		::	*erṣík*	'to bless'
SQa	*ráḥaṣ/iróḥaṣ/lráḥaṣ*	::	*rīḥaṣ/rūḥaṣ/lerḥɔ́ṣ*	'to wash, to cure'
	šēdə		::	*šídə*	'to divide'

This vocalic pattern is valid for the passive of the simple verb and for some derived themes:

			::		
MQn	*hədḳáwḳ* (derived by *h-*)	::	*hdīḱḗḱ*	'to grind'
JL	*oxōṭ*		::	*exíṭ* ⟨xbṭ⟩ (derived by int. modif.)	'to load'
	effósx		::	*efséx* (derived by infixed *-t-*)	'to undress, to untie'
SJms	*ʾə́nkaʿ*		::	*ʾínkaʿ* (derived by pref.)	'to make go, to bring'

Generally, in Jibbāli and Soqoṭri, the personal prefixes do not occur in the passive form, therefore the prefix *l-* occurs in the whole paradigm of the subjunctive: SQa subj. pl. 2f.: *tšemaʿan :: ləšmáʿan* ('to make hear', derived by prefixed *š*, ⟨hmʿ⟩).

Verbal Tense and Modalities
Particles, preverbs and auxiliary verbs or periphrastic constructions are used to express tenses and modalities. The prefix conjugation has an imperfect value and the suffix conjugation a perfect one.

Main Aspectual–Temporal Markers
• *ð-/d-* (M, Hb., Ḥ), *d-/ed-/id-* (Jib.)

The prefix conjugation with this aspectual–temporal marker has a concomitant value. This marker does not occur before the *t-* prefix.

MQn *d-əhōriğ šīš mehrīyət* 'I am speaking Mehri to you'
ML *hoh δ-ašámələn təgərēt* 'I am dealing with merchants'
HHf *δ-iᶜámər* 'he is saying'
ḤL *δ-aṣáwwər* 'I am stopping'
JL *d-igɔ́lǝd* 'he is hitting' (*ygɔ́lǝd* 'he (always) hits')

The suffix conjugation with this aspectual–temporal marker is a resultative perfective. It is a means to express the state resulting from an accomplished process:

MQn *ṣʌrɔ́mʌh də-nfū̃s* 'now, he is gone'
ḤL *hoh δə-hēndək* 'I am sleepy'
JL *eṣəfərí ed-míźɔt míh* 'the pan is full of water'

- *ber/bər/bɛr*
  In Mehri, Hobyōt, Ḥarsūsi *ber* is an invariable preverb. In Jibbāli and Soqoṭri, *bər* is conjugated at the suffix conjugation. Its values and functioning are similar to CA *qad*.
  With the prefix conjugation, examples are scarce; *bər* means 'now, already', and it often expresses that something has happened, as opposed to circumstances or another state/fact: MQn *bər isyūr lēken ihōrig lá'* '[baby] already walks but he doesn't speak (yet)'.
  In *JL*, after *ber*, the impf. is always with *d-*: *ber d-ikɔ́tǝb* 'he is already writing'; *nḥan bérən ed-nγéfəl ᶜar šúγlən* 'we've been neglecting our work'.
  With the suffix conjugation, *ber* insists on the completion of the process, with a resultative value:

MQnB *wət myɔ́rən bər kéśā, iṭáwyəm teh* 'afterwards, when it is quite dried, they eat it'
HHf *hoh bɛr wtəlúmk* 'I am prepared'
ḤL *ḥādōtya nδēf, bər rəḥéṣək tīsən* 'my hands are clean, I've just washed them'
JL *bérɔt ṣəfḥɔt* 'she is past childbearing'
SQb *šarīṭ bər mīle'* 'the tape is full (it has just stopped)'

With the future, it expresses imminence: MQn *bər ḥɔ́m ǝlté* (*u myɔ́rən xʌdmō-na*) 'I am about to eat (and afterwards I'll work)'; *JL ber ḥa-yɔ́ktəb* 'he is about to write'.

Future
Soqoṭri is the only language that does not have a special future conjugation (the prefix conjugation is used). In Mehri, Ḥarsūsi, and Baṭhari the future is expressed by means of a verbo-nominal form, the active participle, that only has a predica-

tive function. It varies in gender and number.

In the basic form, the participle has an *-a* suffix: CəCCŌn-a, CəCĪCt-a/ (CəC-Cōn-i, CəCCáwt-i)/CəCēyC-a, CəCCūtən (sg. m., f./(du. m., f.)/pl. m., f.). The active participle stem of the derived forms differs from the subjunctive pattern only by the addition of an *m-* prefix, and occasionally of an *-a* suffix. Gender opposition is neutralized at the plural of derived forms in MQnB and in *ML* (but not in MQn) and the common plural is identical to the nominal feminine plural: MQnB *məkaráwtən*, future (pl. c.) of *hakrawr* 'to go at midday'.

In these languages, the periphrasis: "want" + a subjunctive verb also has a future value.

In Hobyōt, the future consists of *méd-* + suffix pronoun + verb. The suffix pronoun refers to the subject; the verb is in the subjunctive (in some dialects, the particle is invariable): HHf *médiš-tətīk ḥmo* 'she will drink water', HHt *méd-yəntáwhɔm* 'they will fight one another'.

In Jibbāli, the subjunctive is preceded by the preverb *ha-/ḥ-*: JL *ha-yśóm* 'he'll buy', *ha-lɣád* 'I'll go', *ḥ-íḥí* 'he will look for'.

Adverbs, and Other Parts of Speech

Adverbs
Besides temporal deictics (cf. Deictics Referring to Time, p. 393), the common adverbs of time are:

> *sōbər* (M) *ṣēbər* (Ḥ) *sóbər* (Jib.) *déhər* (S.) 'always'
> *ʾábdan* (M), *bdan* (Jib.) 'never, ever' (from Ar.)
> *myōrən* (M), *myɔ́rɛ* (Hb.), *məɣārə* (B), *myōrhən* (rare)/*mətəlē* (Ḥ), *myɔ́rɛ́*
>   (Jib.), *mser* ⟨mən + sar/ser⟩ (S.) 'afterwards, later on'
> *yəllílə* (M), *əlˤáyni/əlˤéni* (Jib.) 'tonight'
> *ɣasré* (Jib.) 'at night'

Some prepositions are used in constructions denoting time: *k-* in Mehri, Hobyōt, Ḥarsūsi, Jibbāli, and *l-* in Soqotri for periods of the day: *k-ṣōbaḥ* (M, Hb., Ḥ), *k-ḥáṣṣáf/k-ḥáṣaf* (Jib.), *lə-ṣabḥ* (S.) 'in the morning', and part of the year in MQn: *k-xáref* 'in autumn'.

Other Parts of Speech

Prepositions
The prepositions common to all MSAL are:

> *b(ə)-* 'in, with', *h(ə)-* 'to, for', *l-* 'against, on', *k + N/š + suf. pro.* 'with', *mən*
>   'from', *t(ə)-* accusative marker for personal pronoun
> *ðār* (M, Ḥ)/*ðér* (Jib.)/*ṭār* (MQn)/*ṭhar* (S.) 'on'
> *ənxáli* (M, Ḥ)/*nxín, lxín* (Jib.)/*nḥaṭ* (S.) 'under'

sār (M, Ḥ)/*ser* (Jib.)/*sar* (S.) 'behind'
fən, fənw- (M, B)/*fēn* (Hb.)/*fēn* (Ḥ)/*fénɛ ɛ, fən-é-* (Jib.), (*di-*)*fónə, fénə* (S.)
   'before, in front of'

Some prepositions do not occur in all the MSAL:

bād/baʿd (M, Ḥ) (cf. Arabic) and *əm-bād/mən-bād* (M), *mən-ẟér* (Jib.) 'after'
bərk/brek (M, Hb., B, Ḥ) 'in, inside, at'
tē/tɛ/tā (M, Ḥ, Jib.)/*ʾetēʾ* (Hb.) 'up to'
ʿan (Jib. 'from, than'/*ʿa(n)* (S.) 'from, to'
ken (Jib.)/*kən, kɛn* (S.) 'from'
ʾəd/ʾid/d (S.) 'in, to'/(*ʾe*)*d* (Jib.) 'to, up to', *ʾɛd* 'till' (Jib.)
yɔl (Jib.)/*diɔl* ⟨*ʾəd + ɔl*⟩ (S.) 'towards'
wdé- (M, Ḥ) 'towards'
ʿak/ʿamk (Jib.) 'in, at' (cf. *ʿamk* (M, Hb., Ḥ, S.) 'middle')

In Mehri, Hobyōt, Baṭhari, Ḥarsūsi and Jibbāli, *h-* 'to, for' is used in compound prepositions: *h-āl, h-al/h-ən* (M) 'to, at, with', *hné + N* (*ML*), *hné + suf. pro.* (MQn) 'at', *hel, helt-* (Ḥ) 'at', *her* (Jib.) 'to, up to, for', *hes* (Jib.) 'up to'.
   Each language also has its own prepositions that do not occur in the others:

Ḥ: *wəl* 'towards', *əm-būn, mātōd* 'after'
Jib.: *tél + N/tɔl + suf. pro.* 'at, with', *mən- tél* 'from', *ʿémt* 'towards, to', *her* 'up to, to, for'
S.: *ʿaf/ʾaf* 'up to, until'

The same element can be either a preposition, a conjunction or an adverb:
hes 'up to' and 'then, when' (Jib.) and *hīs/his/hes* (M), *hīs/has/əs* (Ḥ) 'when, since; like', *hes* 'like' (Hb.); *her* 'up to, to, for' and 'if, when' (Jib.).

Conjunctions
The main temporal conjunctions are:

teh/teʾ/te/tē/tɛ/ta (M, Hb., Ḥ), *tə-wət* (MQn), *ʾɛ/ɛ/ʾa* (Jib.) 'until, till, then when'
mət /mayt/mit (*ML*, Hb., Ḥ, Jib., S.), *wət/wet* (MQn), *her* (Jib.), *ḥákt ɛ-* 'when', *hes* (M, Hb., Ḥ, Jib.), *tœ/tə, ʿam* (S.) 'when, as'
lɔd/lɔt, sēʿ (S.) 'when, while'
lol/lɔl, ke, karámmə, kaném(m)ɔ (S.) 'when, if'

The main causal conjunctions are: *ʾən/l-ən* (M), *yənn* (Ḥ), *l-ín/l-hin* (Jib.) 'because'.
   The main final conjunctions are: *l-egirēh/l-agərē* (M) (but *l-ɛgeré* 'because, for' in Jibbāli), *hér* (Jib.), *uken* ⟨'and'+'to be'⟩ and *kɛr* (S.) 'in order to, so that'.

Interrogative Particles

híne (Hb.), *híne*, *héni* (Jib.) 'why?'

kō, *kóh* (*ML*), *wəkō* (*ML*, MQn), *kɔ*, *wəkɔ́* (Hb.), *kɔh* (Jib.) and *hībáh* (*ML*),
   hībóh (MQn), *həbó* (Hb.), *hābō* (B), *həbō* (H), *ʾífo/ʾífɔl /fɔl /fəl* (S.) 'how?
   why?'

mayt (M), *mit* (Jib.), *míh/mīh* (S.) 'when?'

hɔ̄ (*ML*), *hō* (MQn), *hɔ́* (Hb.), *hān(ə)* (B), *hōnəh* (H), *hun*, *hútun* (Jib.),
   hɔn/ho/hoʾo (S.) 'where?'

wəlɛ̄ ⟨*w* + neg.⟩ (M), *flɔ*, *bé-flɔ́* ⟨*b* 'and' + *lɔ* neg.⟩ (Jib.) 'or else?'

Verbal Particles and Auxiliaries

Besides *ber*, and *d-/δ-*, other verbal particles and auxiliaries are used to express
durativity, iterativity, imminence, etc.:

ād-/ʾād-/ād- + suf. pro. + perfect/imperfect, for the progressive (M, H)

ʿād-/ʾād-/ād- + suf. pro. + *ʾar/ʾar* (restrictive particle) + *mən* + suf. pro. + pf.
   'to have just ...' (M)

hal/xal + subj. (S.), *ləbōd* (aux.) (H), *ɔd/ʿad* (aux., pf.) + indicative (Jib., S.)
   'to keep on'

wīka/wēka (aux.) + subj. (M, H), *láʿaf/lɔ́yəf* (aux.) + impf. 'to be used to'

ʾāzōm ⟨*ʿzm*⟩ (aux.) + subj. 'almost/very nearly' in the past (M, H)

ṣōr (aux.) + *d-/δ-* + imperf. (M) 'to begin to'

Syntax

Word Order

In the sentence, the order may be: subordinate clause + main clause or vice versa.
Topicalization and focusing are to be taken into account.

Clause Level

In nominal clauses, the order is subject + nominal predicate:

SQa *ṭáhin nāfə di-ɣagētən* '(to) grind (is) the work of women'

MQn *yimóh raḥmēt* 'today it rains' ⟨today rain⟩

BM *kélləs eká° lə bəṭáhrīt we hémǝhuw bit bəṭhār* 'all the earth (belonged) to
   the B. and their name (was) B.B.' ⟨all it (f.) earth to Bathari and name-them
   Bait Bithar⟩.

In verbal clauses, the order is VSO or SVO, but if the subject is an independent
pronoun it is always placed before the verb.

Phrase Level

Nominal Phrases
The definite article when it exists (in the Mehri of Oman, Ḥarsūsi, Jibbāli) is always prefixed to the definite item, noun or adjective whose first consonant is voiced or ejective/glottalized.

In a nominal phrase with two nouns, the word order is always *determinatum* + determiner; the same with adjectives: N + Adj.

In all languages, except Soqoṭri, the word order in possessive construction is: possessed + possessor (cf. Possession in Soqoṭri, p. 419).

The construct state is only found in some frozen constructions and special words (kinship nouns, parts of the body, and the item *baʿl* 'owner, possessor, he of ...'). In the languages with a definite article, the two terms are usually definite, and if the determiner is a suffixed pronoun, the noun is definite, as opposed to Arabic syntax.

> MQn *bōli ḳás̄ən* 'they of (the inhabitants) Qishn'
> ḤL *lēlt awkēb* 'the wedding night' ⟨night entry (def.)⟩
> JL *ēṭəb ōz* 'the teat of goat'
> SQa *bər ḳāḳa* 'nephew' ⟨son brother/sister⟩

This construction very rarely occurs in Hobyōt.

Usually a particle binds the *determinatum* to the determiner. This particle is *δ-/d-* after a singular noun, and *l-* (JL *íz̄*) after a plural noun. In Mehri, even with a plural noun the particle is often *δ-/d-*. In Jibbāli, *δ-* does not occur in a possessive phrase (the particle is *ɛ́*). In the languages with a definite article, both items of the phrase may be definite.

> MQn *hadūtən l-nūr* '(the) maternal aunts of Nur'
> MJb *kīs δˀ-tōmər* 'sack of dates'
> HHf *šinót δə-ḳanyún* 'the sleep of babies'
> ḤL *əšnéwwət δə-ḥəyδōntən* 'jaw-joints' ⟨joints (def.) of ears⟩
> BM *nātuš le-ḥālīt* 'spots of rust'
> JL *mékék δə-ḳít* 'half a sack of food', *edaʿbéh iz̄-šx̄ɔ́rtə* 'curses of the old women', *ɛṭb ɛ́-ˀɛ́mɛ́š* 'the teat of its (f.) mother'
> SAK *ḳɔ́ṭrəh d-dɵr* 'a drop of blood'

Verbal Phrases
The direct or indirect object follows the verb directly in verbal phrases. When the complement is pronominal, it is often (always in Soqoṭri) introduced by the accusative particle *t-*. Verbs with three valences have the pronominal complement preceding the nominal complement: V + (*t-*) suf. pro. + N. When both complements are pronominal, the order is the following: V + (*t*)-pr. suf. (beneficiary) + *t*-pr. suf. obj.

MJb *ţəlōm tē-sən ḥmo* 'they ask them (f.) for water'
ML ţəláwb-əh şalḥ 'they asked him for a truce'
HHf *wuzum t-ī te-h* 'he gave it to me'

Complex Sentences
In asyndetic constructions, the complement clause follows the main clause. In hypothetical conditional sentences, the protasis mainly precedes the apodosis. With causal, final and temporal clauses, the clause order varies.

Agreement Rules
Generally, the subject governs person, gender and number agreement in the verb. Personal and deictic pronouns, attributive and predicative adjectives agree in gender and number (including dual in Soqoṭri), also in definiteness for attributives, with the nouns they determine. Except in Soqoṭri, a dual noun often governs a plural agreement. With multiple subjects, agreement is always pl. m., even if one of the subjects is feminine.

Animate collective nouns govern a singular or plural (m. or f.) agreement: *ML həbér kálləs* 'all the camels' ⟨the-camels all-her⟩, *həbér əlyákəməh* 'those camels'; but the word for 'cow' in Jibbāli and HHf is f. in sg. and m. in pl. as regards concord: HHf *δénəh lē' wuzúm tī tīs* 'this cow, he gave it (f.) to me', and in pl. *lénəh lhētə, wuzúm tī tohum.*

Negations
The syntax of negation in all MSAL is different from that in Arabic. Each language has its own construction and in all of them (except in Jibbāli) perfect and imperfect conjugations have the same negation as well as declarative, interrogative (with an indicative verb) and prohibitive (with an imperfect and subjunctive verb) sentences in five of the six languages, the Soqoṭri of Soqoṭra being the exception.

In the Mehri of Oman, and some eastern dialects of the Mehri of the Yemen, in Hobyōt, in Jibbāli, the negative particle has two elements *(ə)l ... la'/'ɔ(l) ... lɔ'* enveloping the negated term:

ML 'əl səbēb-i la' '(it's) not my fault', *əl awágəbkəm təsīrəm wə-tkalām aməláwtəy wəţōməh la'* 'it is not fitting for you to go and leave the dead like that', *əl təhēləz bɛy la'* 'don't nag me!'
HHt *l-šīn siyərót lá'* 'we haven't ⟨with-us⟩ cars'
JL āxţér ɔl ksé mîh hér yɔ́fhəś tîhum lɔ́' 'the caravan did not find water to boil their meat', *embére ōrói ɔ yté ɛ yəśbá' lɔ'* 'the shy boy does not eat till he is satisfied', *ɔ tśérk δɔ́hun lɔ́'* 'don't do that!', *ɔl ɛ́ɣbəδəś lɔ'* 'don't anger him!'

In Hobyōt, negation in declarative sentences may have only the postposed element, the construction being similar to what it is in the Mehri of the Yemen, Baṭhari and Ḥarsūsi. This variation can be observed within the use of individual

speakers: HHf (*əl*) *ixóm yə́nṣoz šēhi láʾ* 'he doesn't want to drink tea'. In prohibitive sentences, in Hobyōt, only the second element is present: HHf *tezēm láʾ* 'don't give!'.

In the Mehri of Oman, in prohibitive sentences the negation is often marked by the postposed item alone, and in *JL*, optionally in prohibitive sentences the first item occurs alone, in a reduced form: *JL* ʿ*ɔ tə́ktə́b* 'do not write!'

Sometimes, in *ML*, the first element occurs alone in interrogative sentences, and in Jibbāli, in complement clauses after verbs of fearing, hoping etc. (Johnstone 1981: 2).

In the Mehri of the Yemen, Baṭḥāri, and Ḥarsūsi, the negative particle is the morpheme *laʾ*. Always postposed to the negated term, it is often placed at the end of a clause:

> MQn *hēt hēs-t-ī hoh láʾ* 'you are not like me' (you like-prep.-me I neg.),
> *kədūrən ngərē ́sxɔ́f də hāybíi də bōli gɔ́dəb láʾ* 'we couldn't drink the milk
> of the camels of the inhabitants of Jadib', MQn *tgirā kahwēt láʾ* 'don't drink
> coffee!'
> BM *rahak lā* '(it's) not far'
> ḤL *əkhōl əyətér laʾ* 'I cannot speak', *təhémməh laʾ* 'don't bother about it!' (=
> ML *təhtə́mməh laʾ*)

In Soqoṭri, in declarative sentences, the particle of negation is *ɔl* (realized sometimes [ɔ́ź]) always preposed to the negated term or phrase: SQb *sɛ ɔl hówrəh* 'she (is) not black', *ɔl fšɛk* 'I didn't lunch'; SQaB *ɔl tənɔ́dək káləm dīye* 'you do not say anything good'.

In prohibitive sentences, the negative particle is *ʾa/ʿa(n)/ha*, according to the dialect, followed by the subjunctive: SHr *ʾa tə́te* 'don't eat!', SQb *ʿa lə́zⁿam* 'don't sit down!' (subj. without pers. pref.), SQa *ha tígdehən* 'don't come (pl.)!'. But, in the dialect of the islet of ʿAbd-al-Kūri, the particle is *ɔl* + subj.: *ɔl tšémtœl!* 'don't speak!'

Interrogation

Intonation alone is enough to express interrogation: MJb *təhōrig məhriyɔ̄t*? 'do you speak eastern Mehri?'

Some wh-words are always in head position: SQb *hoʾo d-mésɛ kɔ̄n*? 'where has it rained?' (where of-rain it-was), *īnɛm d-haf de-ha w-ífol d-meyʰ šɛm*? 'what is this place here, and what is its name?' (and-how of-him name); others always in final position: MQn *āmərk hībóh* 'what is it that you said? what did you say?', *hámməs mōn*? 'what is her name?'; HHf *nkaʿk men hɔ̄*? 'where do you come from?'

Among the latter, *wəlē* is always uttered after a pause: MQn *thɔ̄m hmo? wəlɛ̄ʾ*? 'do you want water, or not?'

Interro-negative sentences are syntactically similar to negative sentences or interrogative ones: MQn *thɔ̄m kahwēt láʾ*? 'don't you want coffee?'; S. *ɔl gə́ʿərk*? 'aren't you ill?' (= 'how are you?').

Coordination (Phrasal and Clausal)
Coordination can be only mere juxtaposition, but most often the coordinating con-junction, is used: *wə* (*w*, *ū*, *u*) in Mehri, Hobyōt, Baṭhari, Ḥarsūsi, Soqoṭri, and *b* in Jibbāli. This particle is affixed to the second term of the coordination: *JL hé b-hét* 'you and I'; SQb *b-ʿamk d-ḥadībo[h] u-ḥāwləf* 'between Hadiboh and Hawlef'.

In narratives, *w/b* often indicates a new step in the relation of events. It means 'and thus, and suddenly': MJb *ɣaggēn u-ɣath kōsəm āgizōn tūtōbən u-hem ṭáymən* 'a boy and his sister met women who were tanning and (thus) were thirsty'. *w* may also introduce a causative clause: SQaB *ɔl idīnɔt w-ɔl ṣ̌ɔ̄rət* 'she has not been found guilty because she did not do harm'.

When *w-* coordinates two negative clauses ('nor, or, neither ... nor'), it is im-mediately followed by the negative particle, even in the languages where this is at the end of the phrase: MQn *gehmōna-lá skóṭra u-la kūryamūrya u-la ābdəlkūri* 'I shall neither go to Soqotra nor Kurya Murya or 'Abd-al-Kūri' (compare with: MQn *gehmōna skóṭra-lá, kūryamūrya-lá, ābdəlkūri-lá*, with the same meaning).

Conditionals
The apodosis is introduced by a particle.

Real Conditional
The verb in the protasis is in the suffix conjugation (perfect) or in the prefix con-jugation (imperfect), the verb in the apodosis is in the indicative imperfect, future or subjunctive/imperative.
- M (*u-*)*lū, lē* '(even) if':
  MQn *ulū het kəhábk laʾ uzmēnəs* ⟨fut.⟩ *ha ērs* 'even if you don't come, I'll go to the wedding'
- M, Hb., Ḥ *ʾam, hām/ham, hɔm* 'if':
  MQn *ham xərāgək, tkɔ̄hk láʾ* 'if I go out, you don't come' or 'if I am gone, you don't come'
  HHf *hɔm nɔkaʿ gehme, médi-lʿamer heh* 'if he goes tomorrow, I'll tell him'
  ḤL *am bérək ṣ̌éllək téni əláʾ* 'if you can't give me a lift'
- MJb *han*, MQn, Hb. *ʾɛn* 'if':
  MJb *han thɔ́m tṣ̌ənē imōʾ, thakəṣ̌ɔ́wm* 'if you want to see what it is, you spend the afternoon (at home)' (*hɔ́m* occurs always in the imperfect as V₁ in an asyndetic construction)
  HJb *ṭād ʾɛn ṣ̌ɛnɔ xáṣməh, ikərōb hənéh la* 'if someone sees his enemy, he doesn't go near to him'
- Jib. *her, hel* 'if, when':
  JL *hér siɛ́rɛh ɔl zhɔ̄t híni lɔʾ, ha-l-əmtéhɛk* 'if the car does not come to me, I'll get very annoyed'
- Hb. *haδ* ⟨ha + δ⟩ (for this construction, cf. Jib. *mit/miδ + ā/ɛ̄* 'when'):
  HHf *haδ siyūr hɔ̄f, inōkaʿ bə-tōmər* 'if/when he goes to Hawf, he brings dates'

- S. *tœ, lɔd/źɔd* + subj.:

    SQa *tœ tigdɔ́h* ⟨subj.⟩ *han di-nəzɔ́yɔn ʾɔk ɔ́kniyoh* 'if you go, we'll give you food' ⟨we who-give to-you (sg.) food⟩

    SQb *źɔd ligdah* 'if he goes'

- S. *ke*:

    SQaB *kə rībən hes wu ʿɛsə tsɔ́kɔf* 'if we advise her, then maybe she'll calm down'

- MQn *əlḱā* (subj. sg. 3m. of *wīḱaʿ* 'to be, to happen') + subj., and future in the apodosis:

    MQn *əlḱā háybi l-nkā ha-bārīs, āmələ́ya háflɛh hanōbət* 'if my father goes to Paris, we'll give a big party'

Unreal Conditional
The verb in the apodosis is in the perfect or in a modal conjugation (subjunctive or conditional) and, for an unreal condition in the present, the verb in the protasis is in the perfect.

- MQn *əlḱā* (+ perfect in the protasis and the apodosis):

    MQn *əlḱá kəhɔ́b fəné ɔ́ilət yōm ksáynī bə-bēti* 'if he had come three days ago, he would have found me at home'

- ML, Ḥ *lū/lō*, Hb. *wili*. The conditional or the subjunctive occur in the apodosis:

    ML *lu ɔ́īnək tēk, l-əɣrēbən* ⟨cond.⟩ *tēk əlá*' 'if I had seen you, I wouldn't have known you'

    HHf *wili nɔkaʿ mɔ́in, hoh l-kīnən* ⟨cond.⟩ *fərhənt* 'if he had come yesterday, I would have been happy'

- M *ʿɔ́ðə* (rare), Jib. *ð-kun* (⟨rel. + 'to be' pf. sg. 3m.⟩):

    JL *ð-kun ʿáźi bun l-ɣédən* ⟨cond.⟩ *ɔ́əɔ́ ɛ mskét* 'if 'Ali had been here, I would have gone with him to Muscat'

- S. *lʿam, lémən*:

    SQa *lʿam ʿégib lēɔɔm tan* 'if he had wanted to kill us'

    SQa *lémən gɔ́dahk, ɔ́īnək ʿáli* 'if you had come, you would have seen 'Ali'

Subordination

Complement Clauses
Many verbs (motion, opinion, will) appear in an asyndetic construction with the verb of the complement clause, mainly when the subject is the same. The second verb is generally in the subjunctive:

MQnB *thɔ́m tənhāg* 'she wants to dance (subj.)'
HHf *ɛkhɔ́l lésbah* 'I know (how) to swim'
JL *ʿágəb yhélbəs* 'he wanted to milk it (f.)'
SQaB *ʿégbən nəhɔ́rə' mən məkéylhi* 'we wanted to look for a medicine-man'

Only SAK does not know asyndetic constructions whatever the V$_1$.

In Mehri, the quotative complement clause is introduced by the relator *d-/ð-*:
MQn *yāmərəm d-bōli yəntūf hamǝlēya* ⟨fut.⟩ *kǝbōbǝr* 'they say that the inhabitants
of Yentuf are preparing torchlights'; MGa *ḥád yiʾōmǝr ðe tiwī ʾasǝbāt shēlǝm toh
ʾāynen* 'someone says that the flesh has been eaten up by the animals'.

In SAK the complement clause is always introduced by the conjunction *kɔ*:
egēboh kɔ tɔbɔš 'she wants/wanted to cry'. In the other MSAL, the conjunction is
often linked to the semantics of the V₁. Some of these elements are also preposi-
tions or relators: *mǝn, l, d*, and the negative element *ɔ(l)* after verbs of dread and
denial in Jibbāli (+ subj.):

> MQn *xzīw mǝn tāmérǝn* ⟨subj.⟩ *hīni ǝl-hɔ̄ wǝzmītǝna* ⟨fut.⟩ *-tēs* 'they refused (f.)
> to tell me where they would go'
> MQn *hēs hoh ḳannɔ̄n ɔḳōbi d-genni ixárgɔ́m* 'when I was young, I thought that
> the jinns could appear'
> JL *ɣɔ́lɔ̄t ɔ tzɛm-š* ⟨subj.⟩ *fǝndɛ́l* 'she refused to give him sweet potatoes'
> SHr *ḥaṣáyk ʾen seh tǝgódehǝn* ⟨imp.⟩ 'I know that she comes/is coming'

Relative Clauses
A relative clause can be placed directly next to the word it determines with an ana-
phoric independent pronoun, introduced by the conjunction of coordination *w*, but
it is mostly introduced by a relative. The antecedent is determined by the article in
the Mehri of Oman, Ḥarsūsi, Jibbāli. Relative particles are identical to the genitive
particle/relator (cf. Nominal Phrases, p. 412–412). The relative clause also oper-
ates as an adjective (cf. Adjectives, p. 393), especially in Jibbāli and Soqoṭri: *JL
etéθ-š ɛ-xɛrǝgót* 'his woman who has died' (= his dead woman); SQa *fǝréhǝm
di-škérœh* 'the girl who was good' (= the good girl), du. *ferīmi di-šǝkœrtɔ*, pl.
fɔ́rhɔm di-škɔ́r, or *nomen agentis*: *di-yhɔ́rǝḳ* 'who (m.) robs' (= robber).

Adverbial Clauses

Temporal Clauses
Time clauses are introduced by a subordinative conjunction, some of which are
always followed by the subjunctive.

After *te* meaning 'until', the verb is in the subjunctive, but in the indicative
when meaning 'when':

> MQn *aṣlōb ḥallīw te lɣalēk* ⟨subj.⟩ *ūrīt* 'I am waiting for the night until I see the
> moon'
> ML *tɛ gzōt ḥǝyáwm* 'when the sun went down'
> MQnB *hes wǝzūm tēs degēg, xʌzūt* 'when he brought the chicken to her, she re-
> fused (it)'
> HHf *hes isīyur ḥɔ̄f, inōkaᶜ bǝ-tōmǝr* 'when he goes to Hawf, he brings dates'
> JL *ḥáḳt ēr* ⟨ɛ + ber⟩ *šéḳé ʾiyyɛ́l ḥa-néhɛḳ hóhum* 'when they have watered the
> camels we'll call them'

SQa *lɔd* [*źɔd*] *itēbəl di-han ʾérəhɔn məḥādeb, ikēsə ṭáḥrer* 'when they come back from their field, they meet wild goats'

SAK *hoʰ šink teš tə ntœf* 'he saw him when he felt'

SAK *ke ḳəṣɔ́ʿəh izídə wáyaʿ* ⟨Ar. *wagʿ*⟩ 'when/if she gets up, the pain increases'

SQa **kanémɔ**ʰ *ṭɔd géham lāxeym wukse ikōsə beyh ṣōdɔh* 'when/if someone catches a shark, it happens that he finds a fish in it'

Purpose Clauses
Purpose clauses are not always introduced by a conjunction, but the verb is always in the subjunctive (except with *ker/ḳor, kor* in Soqoṭri).
• Without a conjunction:
   MQn *hēt lūni məɣráf d-ḥmo ləbrēd beh* 'you, bring me a tumbler of water in order/so that I freshen up (myself) with it'
• With a conjunction:
   MGa *siyērš mən fransa te būma* **legirēh** *təɣʌrīb mehrīyət* 'you came from France up to here, in order to speak Mehri'
   JL *embēré ḥɔ́gɔ́r tɔ* **hér** *l-əzémš* ⟨subj.⟩ *šé* 'the boy waited for me to give him something'
   SQaB *nʿámər* **ukɛn** *nɔ́rəbən* ⟨subj. pl. 1⟩ 'we (shall) act in order to deliberate'
   SQa *yəɣtēri gémhəl* **kɛr** *tigídhən* 'he calls his she-camels so that they come'

Copula, Existential and Possessive Expressions

Copula
The verbs 'to be', in all moods, or an aspectual–temporal particle + a suffix pronoun referring to the subject, act as copulas.
• *kēn, kun, kɔn* 'to be' is only used as a copula of existence:
   MQnB *tkŭnən bər bəhīl* 'they (f.) are already ready'
   HHf *ʿafərēt tkun his teθ* 'the demon (f.) is like a woman'
   JL *ʿínéθ təṭɔ́lén kərfɔ́fésən b-eṭúf b-ɔkkɔrkúm hér ətkénən lēnɔ́ti* 'women make up their faces with aloes and saffron to look (to be) white'
   In Soqoṭri, like any verb, the copula can be preceded by the verb modifier *ber*:
   SQa *berœh kɔ̄noh fham* 'it (f.) was already (completely reduced to) coal'.
• *wīka* ⟨wḳʿ⟩ 'to be, to become' can be used as a copula (Mehri, Ḥarsūsi) in existential and possessive sentences:
   MQn *axɔ́dəm l-gérēh lḳā šī drēhəm* 'I work to have money' ⟨I-work in-order-to I-should-be with-me money⟩.
• *ber* + suf. pro. referring to the subject is a copula in nominal clauses:
   MQn = MJb = HHf *bərs bə-ṣ̌áfōr* 'she is (now) in Dhofar'.
• *ʿād/ād/ʿɔd/ʿɔd* + suf. pro. referring to the subject (Mehri, Ḥarsūsi) or conjugated at the suffix conjugation (Jibbāli, Soqoṭri) is an existential copula 'to be, to stay'. In Jibbāli *d-* occurs before the copula in positive clauses: *JL embéré d-ʾɔ́d bún* 'the boy is still here'.

Existential and Possessive Expressions
Nominal sentences (without copula or particle) may express existence, attribution
or possession:

> MQn *ḥarmēt brek bēt* 'the woman (is) at home'
> HHf *ʿali ɣa ðə-fūl* 'Ali is Ful's brother'
> SQb *b-ʿamḳ d-ḥadībœ u-ḥáwləf, šeḳ* 'between Hadibo and Hawlef, (there is)
>   Sheq'

Existential Particles
All the MSAL have the existential particle *śi* 'there is', that (in Mehri, Hobyōt,
Ḥarsūsi, Jibbāli) shares the same rules that any word in negative sentences: *śi
laʾ/ʾəl śi laʾ* 'there is not'. Soqoṭri has a second existential particle *íno* and a pe-
culiar negative existential particle *bíśi* 'there is not': MQn *śi raḥmēt* 'there is rain';
yillēləh ūrīt śi láʾ 'tonight there is no moon'; SQb *bíśi rīho* 'there is no water'.

Existential Expressions
They are formed by a locative or attributive preposition + suf.pr.: *b-* 'in, at', *l-* 'to,
for', *š-* 'with':

> MQn *beh hādəbbīt ṭʌr ləḳəlīḳ d-ēyneh* 'he has a fly in the corner of his eye'
> MJd *šī ḥmo láʾ* 'I have no water'
> SQb *ši ho hōri* 'I have a canoe' ⟨with-me I canoe⟩

Possession in Soqoṭri
Soqoṭri is different from the other MSAL in the way possession is constructed.
The pronoun referring to the possessor is either an independent pronoun, intro-
duced by the relator *di-*, or a dependent pronoun introduced by the preposition
mə(n), the whole phrase precedes the possessed:

> SQa *di-het mʰer* 'your belly' ⟨of-you belly⟩
> *di-ḥan maʿmáʿihɔn* 'our forefathers' ⟨of-we forefathers⟩
> *mɔ-s fénə* 'her face' ⟨from-her face⟩
> SHo *me-š šʰɛm saʿd* 'his name is Saʿad' ⟨from-him name S⟩

When the possessed is in a construct phrase or in a prepositional phrase, *di/mə*
+ pr. precedes the whole phrase:

> SQa *bīyəh di-hœ di-bēbeh* 'the mother of my father', *di-ḥan mən-xalf* 'out of
>   their place' ⟨of-us from place⟩
> SQb *ɛzʿɔ́mk di-eyeh b-ḳaʿr* 'I lived in his house' ⟨I-lived of-him in-house⟩

Abbreviations Related to Language Names and Places

Language names are followed by the abbreviation of place names (for the data of
my fieldwork*) or by the reference to the author.

B	Baṯhari
BM	Baṯhari from Morris 1983
Ḥ	Ḥarsūsi
ḤL	*Ḥarsūsi Lexicon*, Johnstone 1977
Hb.	Hobyōt
HHf	Hobyōt from Ḥawf
HHt	Hobyōt from the village of Hedemet (north of Ḥawf)
HJb	Hobyōt from Jādib
Jib.	Jibbāli
cJ	central dialect of Jibbāli
eJ	eastern dialect of Jibbāli
JL	*Jibbāli Lexicon*, Johnstone 1981
M	Mehri
MDt	Mehri from Damqawt
MGa	Mehri from al-Ghaydhah
MHf	Mehri from Ḥawf
MJahn	Mehri from Jahn
ML	*Mehri Lexicon*, Johnstone 1987
MO	Mehri of Oman
MQn	Mehri from Qishn
MQnB	Bedouin dialect in the area of Qishn
MY	Mehri of Yemen
S.	Soqoṭri
SAK	Soqoṭri from 'Abd-al-Kūri
SHo	Soqoṭri from Ḥadiboh
SHr	Soqoṭri from the Ḥagher Mountains
SJms	Soqoṭri from Johnstone's manuscript notes
SL	Soqoṭri from Leslau 1938, *Lexique soqoṭri*
SNd	Soqoṭri from Noged
SQa	Soqoṭri from Qalansiyah
SQaB	Bedouin dialect of the area of Qalansiyah
SQb	Soqoṭri from Qadhub

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18 Tigrinya

Leonid E. Kogan

Tigrinya is spoken as a native language by the overwhelming majority of the pop-
ulation in the Tigre province of Ethiopia and in the highland part of Eritrea (the
provinces of Akkele Guzay, Serae and Hamasien, where the capital of the state,
Asmara, is situated). Outside of this area Tigrinya is also spoken in the Tambien
and Wolqayt historical districts (Ethiopia) and in the administrative districts of
Massawa and Keren (Eritrea), these being respectively the southern and northern
limits of its expansion. The number of speakers of Tigrinya has been estimated at
4,000,000 in 1995; 1,300,000 of them live in Eritrea (around 50 percent of the
population of the country).

The name of the language, Tigrinya (*təgrəñña*), is the Amharic *nisbe* from the
name of the Tigre province (in various European sources the spellings Tigrinya,
Tigriña and Tigrigna may be found). The language has often been called Tigray
(Tigrai) with the Tigrinya genitive suffix. Needless to say these names should not
be confused with Tigré.

We know very little about the linguistic history of Tigrinya, since all written
documents are of relatively recent date. With some rare exceptions, we possess no
Tigrinya sources earlier than the beginning of the nineteenth century. It was at this
time that more or less substantial Tigrinya word lists were recorded by European
travelers. The Loggo Sarda code of traditional law (found in the church of Sarda,
Ethiopia), which is probably the first production of Tigrinya written literature,
also dates from the nineteenth century.

Today Tigrinya is, together with Arabic, the official language of Eritrea; it is a
language of instruction, literature and media both in Eritrea and Ethiopia.

Phonology

Consonants
Tigrinya has the following consonantal phonemes:

p	t	č	k	kʷ			f	s	š	ḥ	h
ṗ	ṭ	č̣	ḳ	ḳʷ				ṣ			ʾ
b	d	ǰ	g	gʷ			v	z	ž	ʿ	
m	n	ñ			l	r	w		y		

Glottalized Consonants

The non-glottal element in the glottalized consonants (*p̣, ṭ, č̣, ḳ, ḳ*ʷ*, ṣ*) is pro-nounced with more tension than in the respective simple consonants; both ele-ments are pronounced simultaneously (except for *ṣ*, where the glottal element follows the fricative).

Final Devoicing

b, *g*, and *d* are subject to word-final devoicing: *nab* [nap] 'to, towards', *ḥamäd* 'dust, soil' [ḥamät], *mäntäg* 'arrow' [mäntäk]. These forms are sometimes tran-scribed as [nabᵖ], [ḥamädᵗ], etc.

Spirantization

The unvoiced velar stops *k, k*ʷ*, ḳ, ḳ*ʷ have uvular fricative allophones *x, x̱, x*ʷ*, x̱*ʷ (the first two sounds traditionally rendered here as *ḵ, ḵ*ʷ). The spirantization takes place when these stops are postvocalic and non-geminate. Compare, for example, the following realizations of the phoneme *k*:

käfätä 'to open'	vs.	*täḵäftä* 'to be opened'
ʾakkäḇä 'to collect'		*täräḵbä* 'to be found'
ʾarkäḇä 'to reach'		*bärriḵ* 'high, elevated'

Postvocalic spirantization of *b* is a controversial point in Tigrinya phonetics. While special graphemes exist to denote spirantized allophones of the velars, this is not the case for *b*. According to the majority of studies, this phenomenon is lim-ited to the dialects of Tigre province (it has even been suggested that this feature has been borrowed from Amharic). However, in a recent study of Tigrinya acous-tic phonetics by Kiros Fre Woldu (1985), intervocalic spirantization of *b* was ob-served in the speech of five informants, all born in Asmara. Our informants always spirantized *b* in postvocalic position with the exception of word finally, where it is regularly devoiced (see p. 425): *näḇärä* 'to stay, live', *säḇhe* 'to be fat', but *mädäp* (spelling *mädäb*) 'art, division, plan'.

Spirantization of *k* and *ḳ* occurs in word-initial position if the preceding word ends in a vowel and the two are pronounced without pause (external sandhi). Ex-amples: *səm ʾəta ḵaläyti dəma rut näḇärä* 'the name of the second was Ruth' (Ruth 1:4); *ʾəzi x̱əduy ḳəḇʾi* 'this precious ointment' (Mark 14:5). It is generally thought that spirantized *b* never occurs in word initial position, but we did observe such cases in the fast speech of our informants.

Labiovelars

The velar element of the labiovelars *k*ʷ*, g*ʷ and *ḳ*ʷ is identical with the non-labialized velars; the labial, pronounced simultaneously with the velar, is articu-lated as a bilabial sonorant *w*. Labiovelars are fairly stable only before *a* (*g*ʷ*al* 'young girl', *k*ʷ*ank*ʷ*a* 'language'); before *ä* and *ə* they are rarely found. In this case, the labial element is transferred to the following vowel (*ä > o, ə> u*), e.g. *k*ʷ*ɔnnäna* (*konnänä*) 'to condemn', *k*ʷ*əhli* (*kuhli*) 'antimony'.

Laryngeals

The laryngeals ʾ, *h*, *ḥ*, ʿ constitute a natural class because of their similar effects on vowels (see p. 428). ʾ is a glottal stop (Arabic hamzah), *ḥ* and ʿ are traditionally described as pharyngeal fricatives, voiceless and voiced respectively, but a more exact phonetic definition would be, perhaps, "emphatic laryngeals."

Gemination

Every consonant except a laryngeal can be geminated in Tigrinya. In glottalized consonants and labiovelars only the non-glottal (non-labial) element is geminated: *hakkänä* [hakk'änä] 'to try', *k*ʷ*əṣṣal* [kʷɔṣṣʾal] 'green', *mäggʷɔtä* 'to discuss', *täkkʷɔsä* 'to burn'. Gemination in Tigrinya is phonemic and has an important distinctive role, as can be seen from the following minimal pairs:

> *hatäfä* 'to cross, to traverse (a desert etc.)' ≠ *hattäfä* 'to speak in one's sleep'
> *lägabi* 'contagious (a disease)' ≠ *läggabi* 'one who darns'
> *dəro* 'in former times, previously' ≠ *dərro* 'vigil preceding a feast'

Assimilation

Consonantal assimilation in Tigrinya is mostly regressive, and may be partial or complete. A case of partial regressive assimilation can be observed when a *n* shifts to *m* before a *b*: *ʾambädbädä* 'to tremble' (< *ʾan-bädbädä*). This process, however, is fully lexicalized (cf. *ʾan-bäṭbäṭä* 'to pour out slowly') thus belonging to diachronic rather than synchronic phenomena. The third radical *g* and *ḳ* are always completely assimilated to the following *k*- in a number of the perfect forms of the Tigrinya verb: *ḥadägä* 'he left' ~ *ḥadäkka* 'you left'; *säräxä* 'he stole' ~ *säräkkum* 'you (pl.) stole'. In the jussive forms of reflexive stems *t* is completely assimilated to the first radical: *yəssäbär* (< *yət-säbär*) 'let him be broken', *yəkkäddäs* (< *yət-ḳäddäs*) 'let him be celebrated'.

Borrowed Phonemes

The phonemes *p* and *v* are rare and found in loanwords only: *politika* 'politics', *profäsor* 'professor', *räppäsä* 'to iron something well' (< Italian *ripassare*), *vagon, kravat*. The phoneme *p̣* is also of limited occurrence, being attested mostly in borrowings from Geʿez (which, in their turn, are also of foreign origin): *p̣ap̣as* 'metropolitan', *ʾepiskop̣os* 'bishop', *p̣agume* (*p̣agʷəme*) 'the thirteenth month of the Ethiopian calendar'.

Palatals: *š, ž, č, ǰ, č̣, ñ*

Palatals in Tigrinya are considered by some scholars to be found only in loanwords from Amharic. The sounds *ǰ (ž)* and especially *č̣* and *š* are found, however, in words which obviously cannot be regarded as Amharic loanwords. Dozens of Tigrinya words containing palatals have no cognates in Amharic (e.g. *ǰärrämä* 'to be greedy, insatiable') or for phonetic reasons cannot be suspected to have been borrowed (*č̣əḥmi* ~ Amharic *ṭim* 'beard on the chin and around the lips' or

ḥammuštä 'five' ~ Amharic *ammǝst*). On the other hand, *č* and *ñ* do indeed occur mainly in borrowings from Amharic: *mäḵfäča* 'key', *mäčʾe* 'to be suitable', *dañña* 'judge', *wädäräñña* 'opponent'. The phonemic weight of *ž* seems to be light since it is of rare occurrence and often appears in free variation with *ǰ*: *žämmärä/ǰämmärä* 'to begin', *žǝmmat/ǰǝmmat* 'nerves, veins' etc.

Vowels
Tigrinya has seven basic vowels:

```
i       ǝ       u
e               o
ä
        a
```

Vocalic quantity is not phonemic.

Mid Front Vowels
The vowel *e* is almost always pronounced as a rising diphthong *ᶦe* (unless preceded by a laryngeal or a *w*). In fact, this can be described more accurately as a palatalization of the preceding consonant.

As to *ä*, it is a mid low front vowel: *nägädä* 'to trade', *zäḇän* 'time'. It has a back rounded allophone *ɔ* (see p. 428). In word-final position it is pronounced substantially closer: *däge* 'door'.

An interesting case exemplifying the relationship between *ä* and *e* is the following. The sg. 3m. perfect normally has an *ä* in the last syllable: *nägärä*; but when the last consonant is a laryngeal, this vowel is spelled as *e*: *sämʿe* 'to hear'. Since *ä* in this case did not, contrary to the Tigrinya phonetic laws, shift into *a* (which, if it follows a laryngeal, is often represented by the graphemes of the 1st order /-ä/), the best way to preserve its original character in spelling was to use graphemes of the 5th order (*-e*).

Shwa
ǝ is high central unrounded (in IPA transcription *ɨ*). The phonemic status of *ǝ* seems to be certain and it cannot be regarded as an allophone of zero; see minimal pairs like *sähafna* 'we wrote' versus *ṣähafǝna* 'our writer'.

Vowel Harmony
The basic principle of vowel harmony in Tigrinya is the following: *ä* and *ǝ* in an open syllable preceding a syllable containing *o* or *u* shift to *o* and *u* respectively: *sälos* 'Tuesday' may be pronounced *solos*, etc. The best illustrative examples are adjectives and passive participles of the patterns *nǝgur* and *nǝggur*, which are very often pronounced as *nugur* and *nuggur* respectively: *ṣubbuḵ* 'good', *buzuḥ* 'much, numerous' etc.

Influence of Semivowels
ä in contact with *w* often becomes *ɔ* (or even *o*); *ə* shifts to *u* (*ŭ*). Examples: *yəmɔwwət* (*yəmɔwwut*) 'he dies', *wɔy* 'or, either', *muwrad* (instead of *məwrad*) 'to descend' (inf.), *yuwsäd* 'let him carry off!' (instead of *yəwsäd*). This process, however, is far from being universal (compare perfect forms of A and B types from roots with second radical *w*: *ṭäwɔyä* 'to twist' versus *sɔwwärä* 'to hide'). The same change occasionally occurs in contact with other labials: *kəfɔlṭu* 'in order that they know' (instead of *kəfälṭu*).

   i in contact with *y* is often pronounced *ə*: *ḳäyyəḥ* 'red' versus * bälliḥ* 'sharp', *sälləyn* 'to praise' (3rd person singular gerund) versus *ʾabbidu* 'to calm' (same form).

Influence of Laryngeals
The following rules describe the influence of laryngeals on vowels in Tigrinya:

1   *ä* preceded or by a laryngeal becomes *a*: *ḥasämä* 'to be bad' versus *nägärä* 'to speak';
2   *ä* in a syllable closed by a laryngeal becomes *a*: *baḥri* 'sea' versus *kälbi* 'dog';
3   *ə* in an open syllable followed by a laryngeal with *a* (CəHa-) shifts to *ä* or *a*: *täḥarrəs* or *taḥarrəs* 'you are plowing' versus *tənäggər*;
4   *ä* in an open syllable followed by a laryngeal with *ə, i, u* may shift to a: *yərəʾi* 'he sees' versus *yənäggər*.

Diphthongs
Combinations of vowel plus semivowel form diphthongs in Tigrinya, e.g. *läyti* 'night', *haymanot* 'faith, religion', *lɔwṭi* 'exchange', *ḥaw* 'brother', *ḥəywɔt* 'life', *yəfättəw* 'he loves'. All diphthongs are non-phonemic (i.e. can be divided into two phonemes: *sətäy* 'drink!' versus *səbär* 'break!'. *ä* is the thematic vowel of imperfect/imperative, *y* and *r* the third radicals of triconsonantal verbal roots *sty* and *sbr* respectively; *nägiromwo* (pl. 3m. gerund with sg. 3m. pronominal suffix) versus *nägiromwa* (same form with sg. 3f. pronominal suffix). Diphthongs are sometimes reduced to simple vowels: *mot* 'death' (< *mawt*), *bet* 'house' (< *bayt*); very often reduced and non-reduced forms are in free variation: *yəfättəw/yəfättuw/yəfättu* 'he loves', *yəftɔw/yəfto* 'let him love!', *ḳäyḥe/ḳäḥe/ḳeḥe* 'to be red' etc.

Syllable Structure Restrictions
Only CV and CVC syllables are permitted in Tigrinya. Thus, no syllable or word can begin with a vowel, and no initial or final consonantal clusters occur. In rapid speech initial clusters are possible, however, especially if the second consonant is a sonorant. So, *təmali* 'yesterday' may also be pronounced *tmali*. Word-final clusters are dissolved by adding *-i* after the second consonant: *məkri* 'counsel, plan', *səmmi* 'poison', *säbäyti* 'woman, wife'. When a pronominal suffix is added, this

-*i* shifts into *ə*: *məkrəkum* 'your plan'.

Prosody
Stress in Tigrinya has no phonological value and easily shifts from one syllable to another. Dynamic stress is very weak and sometimes almost imperceptible. In many cases it falls on the last syllable, e.g. the euphonic -*i*: *rə'əsì* 'head', *säḥäytì* 'woman'. Pitch is an important element of the Tigrinya stress pattern, but it is also rather unstable. Dynamic stress and pitch may not coincide: *näḥärä̀* 'to be' (´ – high pitch; ` – dynamic stress).

Sentence intonation is clearly predominant over the stress of an individual word. The relationship between these two features requires further investigation, but it is clear that rhythmical units very often do not coincide with single words.

Morphology

Pronouns

Personal Pronouns

Table 18.1   Personal pronouns

		Masculine	Common	Feminine
Sg.	1		'anä	
	2	nəssəka		nəssəki
	3	nəssu		nəssa
Pl.	1		nəhna	
	2	nəssəkatkum		nəssəkatkən
	3	nəssatom		nəssatän

The old Semitic 2nd person pronouns (*'anta/'atta*, *'anti/'atti*, *'antum/'attum*, *'antən/'attən*) are used as vocatives: *'atta tämähari* 'O student!'. In polite address to somebody (singular) the forms *nəssəkum*, *nəssəkən* are employed.

Pronominal suffixes are used with nouns and prepositions (*'of* 'bird' exemplifies bases with consonantal ending; bases ending in vowels are exemplified with *'asa* 'fish') (Table 18.2).

There exist two series of pronominal suffixes used with a verb. The basic forms are given in Table 18.3.

The first series may be used to denote both the direct object and the indirect object: *kətmäkr-änni ṣäwwaʿku-ka* 'I called you in order that you give me a piece of advice'; *hadä däḥtära 'astämhari näḥärä-nni* 'a däḥtära was my teacher' (lit. 'was a teacher for me'). The second series (with -*l*-) can have the meaning 'for, for the sake of' but most often just denotes the indirect object: *zəgəbbär-ällu käḥri* 'the burial which is made for him'; *nätu käläḥet zəsärh-allu ṭäbbib* 'the smith who

Table 18.2 Pronominal suffixes

		Masculine	Common	Feminine
Sg.	1		ʿof-äy/ʿasa-y	
	2	ʿof-ka/ʿasa-ka		ʿof-ki/ʿasa-ki
	3	ʿof-u/ʿasa-ʾu		ʿof-a/ʿasa-ʾa
Pl.	1		ʿof-na/ʿasa-na	
	2	ʿof-kum/ʿasa-kum		ʿof-kən/ʿasa-kən
	3	ʿof-om/ʿasa-ʾom		ʿof-än/ʿasa-ʾen

Table 18.3 Pronominal suffixes with verb

		Masculine	Common	Feminine
Sg.	1		-ni/-läy	
	2	-ka/-lka		-ki/-lki
	3	-o/-lu		-a/-la
Pl.	1		-na/-lna	
	2	-kum/-lkum		-kən/-lkən
	3	-om/-lom		-än/-län

makes the ring for him'.

The relative particle in Tigrinya is *zə* (negative *zäy*). It is prefixed to the verb of the relative clause (see p. 443). If the verb is in the imperfect, several rules of juncture are observed:

1 the prefixes *ʾə-*, *yə-* fall: *zənäggər* 'one who says' or ʿ(it is) myself who says';
2 before the prefixes *nə-* and *tə-* the relative particle may have the form *ʾəy-* (the same is true for the forms of the perfect of *t-* themes). In both cases the prefixes are geminated: *ʾəttənäggər* 'you who say', *ʾəttänägrä* 'what was said'.

The most common interrogative pronouns are: *män* 'who?', *mən* 'what?', *ʾəntaway* 'which?', *ʾäyyänay* 'which one?' (both referring to animate beings); *ʾəntay*, *məntay* 'which?' (both referring to inanimate beings).

Other modifiers: *kull-* (with pronominal suffixes) 'all, every', *gälä* 'some, certain', *kaləʾ* 'other'.

Nouns

Primary and Derived Nouns
Primary nouns are not derived from any consonantal root. No special meaning can be attached to their vocalic element(s), which form an integral part of the root. De-

rived nouns are produced from consonantal roots with the help of either special vocalic patterns or combinations of vocalic patterns with affixes. In most cases (of course, not always) we are able to establish for these patterns a more or less specific lexical or grammatical significance.

Some examples of primary nouns: *čäw* 'salt', *səm* 'name', *ṣäḇa* 'milk', *gʷənči* (*gunči*) 'cheek'; *fäläg* 'river', *ḥarmaz* 'elephant', *ʾənkʷaxʷəḥo* 'egg', *šäfašəfti* 'eyebrows'.

Some examples of derived nouns: *kəfli* 'part, portion' (*käfälä* 'to divide'), *ʾanägagəra* 'manner of speaking' (*nägärä* 'to speak'; this is a very common pattern for "way, manner of action"), *mästä* 'drink' (*sätäyä* 'to drink'), *məwrädi* 'ladder, steps' (*wərädä* 'to descend'), *təʾəzaz* 'order, command' (*ʾazzäzä* 'to command'), *sənfəna* 'weakness' (*sänäfä* 'to be weak'), *ʿərkənnät* 'friendship' (*ʿaräḵä* 'to be, become a friend').

Definiteness

An indefinite noun in Tigrinya needs no special marker. The numeral '1' (m. *ḥadä*, f. *ḥanti(t)*) is, however, very often used before an indeterminate noun, thus functionally approaching an indefinite article: *ḥadä mäʿalti ḥadä däḇtära bəʾagäməšät gəze ʾab ḥadä ʾəmni täxämmiṭu* ... 'one day a *däḇtära* was sitting on a stone in the afternoon'.

Remote demonstratives (see p. 434) may function as definite articles. Examples: *ʾətu₁ məšät₂ məs konä* ... 'when the₁ night₂ fell ...'; *ʾətom₁ kahnat₂ ʾətom₃ däwäl₄ betäḵrəstyanat yədəwwəlu* 'the₁ priests₂ ring the₃ bells₄ of the churches'.

The definite article in Tigrinya is compatible with pronominal suffixes: *ʾətu rəʾəsu* 'his head' (lit. 'the-head-his'); the first element of a genitive construction (see p. 433) also may be preceded by the article: *ʾətom wəläddi ʾətu kʷəlʿa* 'the child's [the] parents'.

Gender

There are two genders in Tigrinya, masculine and feminine. Nouns denoting male and female animate beings exhibit agreement in gender: *ʾətu wəddi* 'the boy'/*ʾəta gʷal* 'the girl'; *ʾətu ʾanbäsa* (*ʾambäsa* 'lion'/*ʾəta waʿro* 'lioness' etc. A few nouns denoting inanimate entities have stable grammatical gender (thus, *ṣäḥay* 'sun' is masculine while *wərḥi* 'moon' is feminine), but most of them may agree as masculine or feminine indiscriminately even in the same sentence. For example, in *ʾəta ḵorbot ʾəta säḇäyti ... təšälləm-o* (lit. 'the leather, the woman ... adorns it') the article before *ḵorbot* is f., while the coreferential pronominal suffix *-o* of the verb is m.

Number

Singular nouns are unmarked. The plural may be expressed by suffixes (external plural) or by internal apophonic changes which may or may not be combined with affixation (internal or "broken" plural). The form of the plural is not determined by any features of the singular, and their relationship is purely lexical.

External Plural

The most frequent external plural marker is *-at* (*-tat*). If the noun ends in a consonant, *-at* is attached directly: *nägär* 'thing, affair': pl. *nägärat*; *säb* 'man': *säḇat*; *mǝlǝkkǝt* 'signal, sign': *mǝlǝkkǝtat*, etc. If a noun ends in a vowel, a *-t-* appears between this vowel and the plural suffix: *ḥasäma* 'pig': *ḥasämatat*; *ʿasa* 'fish': *ʿasatat*; *ʾabbo* 'father': *ʾabbotat*, etc. Less frequent external affixes of plural are *-an* and *-ot* (e.g. *kǝddus* 'holy, saint' (noun and adjective): *kǝddusan*; *gʷǝyta* 'lord': *gʷǝytot*; *gʷäsa* 'shepherd': *gʷäsot*).

Broken Plural

There are no exact rules of correspondence between a nominal pattern and types of broken plural; only some more or less frequent combinations may be listed:

nägri: *ʾanagǝr, ʾangǝrti*
  wǝrḥi 'month': *ʾawarǝḥ*
  kʷǝṣli 'leaf': *ʾaxʷṣǝlti* (*ʾaxuṣǝlti*)
nǝgri: *ʾangǝr* and *ʾanagǝr*
  bǝrki 'knee': *ʾabrǝk*
  nǝhbi 'bee': *ʾanahǝb*
nägär: *ʾangǝr*
  zämäd 'kinsman': *ʾazmad*

ʾangǝr is also the plural of biliterals resulting from the contration of *-aw-/-ay-*:

  bet 'house' (< *bayt*): *ʾabyat*
  sor 'ox' (< *sawr*): *ʾaswar*
nägra: *nägaru*
  säsḥa 'gazelle': *säsaḥu*
Quadriradicals:
  känfär 'lip': *känafǝr, känäffǝr*
  dǝngǝl 'virgin': *dänagǝl, dänäggǝl*
  bärmil 'barrel': *bäramil, bärämmil*
  ṭǝrmuz 'bottle': *ṭäramuz, ṭärämmuz*

Case Relations

Case relations are expressed mainly by prepositions. Since most of them are listed on p. 441, only direct/indirect object relations and the genitive construction will be analyzed here.

Direct/Indirect Object

The marker of both direct and indirect objects is *nǝ-* prefixed to the noun. In combination with the definite article it appears in the form *nätu, näta* etc. Examples: *näta säḇäyti ʾaytǝnkǝʾǝwwa* 'do not touch this woman!'; *nätu sǝrnay yǝkǝrkǝrǝʾo* 'they grind this wheat'; *ʾǝtu dañña nǝ-nǝgus bǝkǝlṭuf yǝngär* 'let the judge tell [it]

quickly to the king'. For direct objects the use of *nə-* is optional (especially if the object is an inanimate being): *ḥadä dawit wɔyəm ḥadä mäṣḥaf ḳəddus käfitom* 'they open a psalter or a sacred book'; *ʾəta ḥarič̣ ḥiza* 'she takes the flour'; more seldom with animate beings: *ʾətu₁ säb₂ zə₃-xätälä₄ säb₅* 'the₁ man₅ who₃ killed₄ [another] man₂'.

Genitive Construction
The genitive relation may be expressed either by simple juxtaposition of two nouns or with the particle *nay* (*nota genitivi*).

In the first case the possessed usually precedes the possessor e.g. *gäza₁ wanna₂ ʾətä käḅti₃* 'the house₁ of the owner₂ of the cattle₃' (cf., however, cases like *ʾətu dorho₁ səga₂* 'the meat₂ of the chicken₁' or *kədan₁ ʾattäḥaṣəṣəba₂* 'the manner₂ of washing clothes₁'). The possessed does not undergo any phonetic changes unless it ends in an *-i* (whether "euphonic" or "morphological"). This *-i* is often (but not always) dropped: *ḥəzb kätäma ʾasmära* 'inhabitants of the city of Asmara' (in non-bound position *ḥəzbi*).

The genitive with *nay* may precede or follow the possessed without any difference of meaning, though examples of the first kind are considerably more numerous. Examples: *nay₁ ḥadä₂ däḅtära₃ k̄ʷɔlʿa₄* 'a child₄ of₁ a₂ däḅtära₃'; *wɔrḳi nay gar* 'blood-money' (lit. the gold of recompensation').

Adjectives

Adjectival Patterns
The most widespread Tigrinya adjectives are formed from consonantal roots following several adjectival patterns:

näggir: *bälliḥ* 'sharp', *ʿammix̄ʷ* 'deep'; note also *ʿabiy* (*ʿabəy*) 'big' (with gemination in the feminine *ʿabbay* only).
nəgur (originally passive participle): *ṣənuʿ* 'strong', *ṣəruy* 'pure, purified'.
nəggur: *ṣəbbux̄* 'good', *fəṣṣum* 'perfect'. In the last two patterns *ə* is most often pronounced as *u* (see p. 427).
nägar: *täṣay* 'opposed, contrary', *näx̄ʷar* 'blind'.
näggar: *k̄ʷɔṣṣal* 'green', *kädda*ʿ 'rebellious, treacherous'.

The most common Tigrinya adjectival suffixes are the following:

-am(ma): *nɔwram* 'shameful' (< *nɔwri* 'shame'), *č̣äkam, č̣ärḳamma* 'ragged, poor'
-ay, -away, -awi: *taḥtay* 'low' (< *taḥti* 'low, inferior part'), *mədrawi* 'earthly' (< *mədri* 'earth')
-äyna, -añña, -əñña (these suffixes may have been borrowed from Amharic): *ʾunätäyna* (*ʾunätäñña*) 'true, real' (< *ʾunät* 'truth')
-an: *säk̄ran* 'drunk'

Gender and Number of Adjectives

Grammatical gender can be formally expressed in the great majority of adjectives; the most remarkable exceptions being the type *näggar* and adjectives with the suffixes *-am*, *-äyna*, *-äñña*. Thus, e.g. *kärran* 'one with big horns', *habtam* 'rich', have one form for both genders; so does *saʿda* 'white' (m./f.). The basic marker of the feminine is *-t*: *zämänawi* 'modern', f. *zämänawit*. It often causes phonetic changes in the base: *gərum* 'wonderful', f. *gərəmti*; *sabbux̱*, f. *sabbəxti* 'beautiful'.

Adjectives of the type *näggir* form the feminine apophonically. The form of the feminine is *näggar*, e.g. *sällim* 'black', f. *sällam*; *käyyəh* 'red', f. *käyyah*, etc.

While many adjectives form the external plural with the help of *-at* (e.g. *muluʾ* 'full', pl. *muluʾat*), there exist a number of adjectival patterns requiring broken plurals. The most remarkable one is the case of *näggir*, the plural of which is *näggärti*: *däkkix̱* 'small', pl. *däkkäx̱ti*.

The same form of plural, whether external or broken, is used for both genders.

Gradation of Adjectives

The most frequently used device to form the comparative degree requires the use of the imperfect of a verb with the same root from which the adjective is derived and the preposition *ʾənkab* 'from, than'; *gäzay ʾənkab gäzak̲a yäʿabbi* 'my house is bigger than yours' (*ʿab̲əy* 'big').

Deictics

Tigrinya has two series of deictic pronouns making distinction between near ("this," also "the") and remote ("that") objects (variant forms are given in parentheses):

		Masculine	Feminine
Sg.	'this'	ʾəzu (ʾezuy)	əza (ʾəziʾa)
	'that'	ʾətu (ʾətuy)	ʾəta (ʾətiʾa)
Pl.	'these'	ʾəzom (ʾəziʾom, ʾəziʾatom)	ʾəzän (ʾəziʾen, ʾəziʾatän)
	'those'	ʾətom (ʾətiʾom, ʾətiʾatom)	ʾətän (ʾətiʾən, ʾətiʾatän)

(*ʾə-* may fall, especially in the middle of a sentence, so that *ʾəzu* becomes *zu* etc.)

Other deictics: e.g. *ʾab̲zuy* 'here', *ʾab̲u* 'there', *ʾənkab̲u* 'thence'.

Numerals

Cardinals

1	*hadä* (f. *hantit, hanti*)		6	*šədəštä* (*šudduštä*)
2	*kəlättä*		7	*šob̲ʿattä* (*šoʿattä*)
3	*sälästä*		8	*šommontä* (*šommäntä*)
4	*ʾarbaʿtä*		9	*taš̱ʿattä*
5	*hammuštä*		10	*ʿassärtä*

11   *ʿassärtä ḥadä*
12   *ʿassärtä kələttä*
20   *ʿəsra*
21   *ʿəsra-n ḥadä-n* (*-n* 'and' (see p. 442))

30	*sälasa*	70	*säbʿa*
40	*ʾarbaʿa*	80	*sämanya*
50	*ḥamsa*	90	*täsʿa*
60	*səssa*		

100 *maʾti*; 1,000 *šəḥ*; 10,000 *ʾəlfi* (*ʿassärtä šəḥ* is also used).

All the numerals except '1' have one form for both genders. The noun counted may appear in the singular or in the plural: *ḥammuštä säbäyti* or *ḥammuštä ʾanəsti* 'five women'.

Ordinals

First: *mäžämmärəya* (also *fälämay* and *kädamay*, f. *fälämäyti* and *kädämäyti*); second: *kalʾay, kələttäyna* (f. *kalʾayti*).

Ordinals from third to tenth are formed from the consonantal roots of the respective cardinals according to the pattern *nag(ə)ray: salsay* 'third' (f. *salsäyti*) etc.

Verbs

Root and Derivation

Verbal roots are consonantal and may consist of two or more (in most cases three, sometimes four) radicals. These consonants usually remain unalterable throughout both the derivational and the inflectional paradigms and do not exert any influence on the adjacent non-radical morphemes. Verbs where one of the radicals is a laryngeal or a semivowel are denoted here as, e.g. 1*w/y*, 2*H* (*H* being any laryngeal) etc. These verbs present more difficulties as compared with the corresponding forms from "sound" verbs.

Derivational classes (called "themes" below) ideally express causation, passivity, reflexiveness etc., or combinations of these notions. Even though these semantic definitions do not always apply, the cases where they do are numerous enough to see that these formations are not completely lexicalized. The full range of the Tigrinya verbal themes is discussed in the following section; they are marked as I, II, III and IV.

Conjugations

A verb belonging to a certain theme is identified according to one of the four conjugational types (marked here as A, B, C, D). Traditionally the verbs are illustrated by the perfect (see p. 437). Type A is the unmarked one (*nägärä*); the B-type is characterized by the gemination of the second radical (*näggärä*), the C-type by the presence of an *a* after the first radical (*nagärä*) and the D-type by the

repetition of the second consonant and an *a* between the repetitions (*nägagärä*). Accordingly, every verb may be classified as, e.g., IC (*nagärä*) or IIIB (*tänäggärä*) etc.

All the derived forms with their approximate semantic value are listed below.

I Forms without Prefixes

IA   *nägärä*: *nägäsä* 'to reign', *gädäfä* 'to leave';
IB   *näggärä*: *gäbbäṭä* 'to knead dough', *kärräṣä* 'to collect duty';
IC   *nagärä*: *lašäwä* 'to be worn out', *zaräyä* 'to abate (of water)'.

These three forms are basic and the conjugation has no semantic correlation. Pairs like IB *kärräṣä* 'to collect duty' vs. IA *käräṣä* 'to carve, to engrave' or IC *zaräyä* 'to abate' vs. IA *zaräyä* 'to defend somebody, to be partial (of a judge)' show that the respective root is used for two different verbs.

ID   *nägagärä*: *ḥasasäbä* 'to think again and again about something, to think out something' (*ḥasäbä* 'to think'), *kätatälä* 'to kill many' (*kätälä* 'to kill'), *hararäsä* 'to plow a field partly, not thoroughly enough' (*haräsä* 'to plow').

This form, usually called "frequentative," denotes a rather wide scope of notions with respect to IA, such as intensity (increasing or decreasing), attenuation, plurality of objects etc. Unlike IB and IC, it is fairly productive and only formally belongs to the "basic" themes, functioning more like the derived forms discussed below.

II Forms with *t-* Prefixed

IIA   *tänägrä*: *täkäftä* 'to be opened' (*käfätä* 'to open'); a few verbs have an *ä* after the second radical: *täxäräbä* 'to be presented' (*käräbä* 'to approach');
IIB   *tänäggärä*: *tä'akkäbä* 'to be assembled' ('*akkäbä* 'to gather');
IIC   *tänagärä*: *täfaxäyä* 'to be explored (a place)' (*faxäyä* 'to explore, to spy').

These forms are employed mostly to denote the passive of IA, IB and IC respectively.

IID   *tänägagärä*: *täfädadäyä* 'to indemnify each other' (*fädäyä* 'to indemnify'), *täḥalaläxä* 'to defend each other' (*ḥalläxä* 'to defend oneself').

This form denotes reciprocity (IIC is also used for this purpose, e.g. *täfadäyä* alongside *täfädadäyä*).

III Forms with ˀ*a*- Prefixed

IIIA   ˀ*angärä*: ˀ*aḫkäyä* 'to make cry' (*bäḫäyä* 'to cry');
IIIB   ˀ*anäggärä*: ˀ*ašäbbärä* 'to terrify' (*šäbbärä* 'to tremble');
IIIC   ˀ*anagärä*: ˀ*alaṣäyä* 'to make somebody shave the head' (*laṣäyä* 'to shave one's head'.

These forms are, in most cases, causatives for IA, IB and IC; the form IIID does not exist.

IV Forms with Prefixed ˀ*a* and Gemination of the First Consonant
This prefix goes back to *ˀ*at*- with a complete assimilation of *t*, which appears when the first consonant is a laryngeal:

IVC   ˀ*annagärä*: ˀ*affadäyä* 'to make two parties indemnify each other (e.g. of a judge)'; ˀ*affanäwä* 'to accompany somebody who leaves';
IVD   ˀ*annägagärä*: ˀ*abbäˀaˀasä* 'to make many people dispute one with the other'; ˀ*attäḥaẖ*ᵂ*aẖ*ᵂ*ɔfä* (*t* before *ḥ*) 'to make embrace one another'.

The meaning of both IVC and IVD themes is more or less the same: causative reciprocal ('to make somone do something together with someone else') and adjutative ('to help someone to do something'); IVD is perhaps associated with more intensive action.

Compound Verbs
There exists an important number of verbs which are combinations of the verb *bälä* 'to say' and a quasi-verbal element consisting of two or more radicals. The latter carries the semantic value of the construction and remains unaltered throughout the paradigm, while *bälä* (also used in other themes, especially in the causative, ˀ*abbälä*) carries the inflection. A few examples of compound verbs: ʿ*aw bälä* 'to cry' (ʿ*aw* ˀ*abbälä* 'to raise one's voice'); *tǝḵ bälä* 'to be straight' (*tǝḵ* ˀ*abbälä* 'to put upright'); *bǝdǝd bälä* 'to get up, to rise'.

Tenses
The Tigrinyan verbal system comprises three basic tenses, traditionally called perfect, imperfect and gerund. These relations may also be expressed by various combinations of these tenses with auxiliary verbs, special temporal prefixes etc.

Perfect
The perfect denotes past: *bǝḥaṣe tädros gize kǝlǝttä hadänti färänži nab* ˀ*ityoṗya hagär mäṣu* 'at the time of the Emperor Theodoros two French hunters came to Ethiopia'; ˀ*ab* ˀ*asmära täwɔlädku* 'I was born in Asmara'. It may also be used to denote the present, usually in verbs with stative meaning: *mǝntay däläḵa* 'what do you want?'; *mǝntay gäbärka* 'what are you doing?' etc.

Table 18.4   IA perfect

		Masculine	Common	Feminine
Sg.	1		nägär-ku	
	2	nägär-ka		nägär-ki
	3	nägär-ä		nägär-ät
Pl.	1		nägär-na	
	2	nägär-kum		nägär-kən
	3	nägär-u		nägär-a

Imperfect

Table 18.5   IA imperfect

		Masculine	Common	Feminine
Sg.	1		ʾə-näggər	
	2	tə-näggər		tə-nägr-i
	3	yə-näggər		tə-näggər
Pl.	1		nə-näggər	
	2	tə-nägr-u		tə-nägr-a
	3	yə-nägr-u		yə-nägr-a

Derived Themes

	IIA yə-nəggär	IIIA yä-(ya-)nəggər	
IB yə-nəggər	IIB yə-nəggär	IIIB yä-(ya-)näggər	
IC yə-nagər	IIC yə-nnagər	IIIC yä-(ya-)nagər	IVC yä-(ya-)nnagər
ID yə-nägagər	IID yə-nnägagär		IVD yä-(ya-)nnägagər

The imperfect denotes an action in the present: *säḫat dəkatat muk̲ʷankum ʾəfälläṭ* 'I know that you (pl.) are poor'; *ʾətu mäžämmärya ʿaynät nab kəlättä yəkəffäl* 'the first type is divided into two'; *ʾəta säḫäyti may täfəlləḥ* 'the woman boils the water'.

Preceded by *kə-* and followed by another verb the imperfect expresses various modal and aspectual relations, such as possibility, wish, aim, beginning of an action etc. (Note that *ʾə-* and *yə-* prefixes fall when *kə-* is added.) Examples: *mannəm säb dayna kə-k̲ɔwwən yəkəʾəl* 'every one may become a judge'; *ḥadä nägär zäy-nə-fälläṭ nägär kə-däggəm žämmärä* 'he began reciting something that we did not know'; *ʾətu ʿədaga kə-trəʾi kädka* 'you went to see the market'. *kə* + the imperfect + *ʾəyyu* expresses the future: *kə-x̲ätlänna ʾəyyu* 'he will kill us', *gänzäḫu kə-həḫäkka ʾəyyä* 'I'll give you his money'. Composed with *ʾallo*, the imperfect denotes the immediate present *ʾəḥazo ʾalloku* 'now, I catch him'. In combination with *näbärä*, the imperfect denotes a durative action in the past: *ḥadä šəfta ʾab ḥadä ʿaḫiy bäräk̲a yəx̲əmmäṭ näbärä* 'an insurgent was living in a large thicket'.

The Gerund

Table 18.6   IA gerund

	Masculine	Common	Feminine
Sg. 1		nägir-ä	
2	nägir-ka		nägir-ki
3	nägir-u		nägir-a
Pl. 1		nägir-na	
2	nägir-kum		nägir-kən
3	nägir-om		nägir-än

	IIA *tä-nägir-u*	IIIA *ʾangir-u*	
IB *näggir-u*	IIB *tänäggir-u*	IIIB *ʾanäggir-u*	
IC *nagir-u*	IIC *tänagir-u*	IIIC *ʾänagir-u*	IVC *ʾannagir-u*
ID *nägagir-u*	IID *tänägagir-u*		IVD *ʾannägagir-u*
	(*tänagagir-u*)		

Used independently, the gerund denotes the result of an action in the past (mostly from verbs with stative meaning): *məs män mäṣiʾki* 'with whom have you come?'; *ḥamimka-do? ḥamimä* 'are you ill? Yes, I am'. In most cases, however, the gerund is found followed by another verb in the perfect or the imperfect and denotes an action simultaneous or anterior to this one: *naḫtu gäza tämälisa … ṣubbux ʾəngera ʾalʿila ḥaḫätto* 'she went back to the house, took good bread and gave it to him' (lit. 'having gone … and taken … she gave …'); *naḫtu gäräb hadimu ʾatɔwä* 'trying to flee he entered the bush'; *näziʾatom ḳäṣṣilom ʾətom mäk̊ʷɔnənti ḥadä käḫti täxämmitu nəḫäynu yəmäṣṣəʾ* 'following these, sitting on a beast the noble appears alone', *bäggiʿ ʾaḫsilom bäliʿom yəḳädu* 'having cooked the sheep and eaten they go'.

The gerund + *näḫärä* expresses the pluperfect (mostly in written language): *ḥaṣe tädros ḥadä märaḥ mägäddi yəkunkum bilom ḥadä säb hiḫomuwom näḫäru* 'the Emperor Theodoros (*pluralis majestatis*) had given them a person and then said: "Let him be a guide for you!"'. Composed with *yəkɔwwən*, the gerund denotes a possibility in the future: *ṣəḫaḥ bäzi säʿatzi tämälisä ʾəkɔwwən* 'it is possible that I come back tomorrow'. In combination with *ʾallo*, the gerund serves to express the result of an action in the present: *säḫat ḥadä koynu räḳiḫnayyo ʾallona* 'we have just found out that the men are similar'.

Moods: Jussive and Imperative
The jussive has the same prefixes as the imperfect; the fundamental difference consists in the vocalism of the base:

IA *yə-ngär*   IIA *yə-nnägär* IIIA *yä-ngər (ya-ngər)*
IB *yə-näggər* IIB *yə-nnäggär* IIIB *yä-näggər (ya-näggər)*
IC *yə-nagər* IIC *yə-nnagər* IIIC *yä-nagər (ya-nagər)*   IVC *yä-nnagər (ya-nnagər)*
                                                            IVD *yä-nnägagər (ya-nnägagər)*

All D-forms are the same as the corresponding forms of the imperfect.

The jussive is employed to express indirect commands (1st and 3rd persons): *yəngär* 'let him say!'; about its use to express negative commands see below.

The following is the paradigm of the imperative:

	Singular	Plural
M.	nəgär	nəgär-u
F.	nəgär-i	nəgär-a

In derived forms the base of the imperative is in most cases identical to that of the jussive. The imperative is used to express positive commands only; negative commands are expressed by the jussive with the negative *'ay*: *nəgär* 'say!' versus *'ay-tə ngär* 'do not say!'.

Verbal Nouns and Particles

The pattern of the active participle in IA is *nägari* (f. *nägarit*, pl. *nägärti* or *nägaro*); the form of IB is *näggari*, derived forms *tänägari*, *'angari* etc. The form of the passive participle is *nəgur* (except for IB where it is *nəggur*: *gəttur* 'loaded' (a rifle) < *gättärä* 'to load'). An important number of active participles are substantivized, so that the term *nomen agentis* is also appropriate for this form.

The basic pattern of the infinitive is *məngar* (*mərkab* 'to find', *məngad* 'to trade' etc.; in B-forms the second radical is geminated (*mənaggar*): *məgəllal* 'to pour out'). This form may be employed for all the simple, passive and causative themes so that *mərkab* may mean 'to find', to make find, to be found' depending on the context. The infinitive is very often used with the preposition *nə-*: *nə-məngad* 'in order to trade'.

Verbs with "Weak" Radicals

In Tigrinya these present a great variety of forms, most of which, however, may be plausibly explained by the phonetic peculiarities of the "weak" consonants (see p. 428). Only the most common forms of IA are listed here. Quadriradical verbs also occupy an important place in the Tigrinya verbal system; the paradigm may be exemplified by *ṣmbr* 'to unite': *ṣämbärä*, *yəṣəmbər*, *ṣämbiru*, *yəṣämbər*, *ṣämbər*.

Verbs with Laryngeals

1*H* (*H* – any laryngeal; exemplified with *ʿṣd* 'to harvest'):
perfect *ṣaṣädä*, imperfect *yəʿaṣṣəd* (*yäʿaṣṣəd*, *yaʿaṣṣəd*), gerund *ʿaṣidu*, jussive *yəʿṣäd*, imperative *ʿəṣäd*;
2*H* (*mhr* 'to teach'):
mähärä (*məhärä*, *mahärä*), *yəməhər*, *məhiru*, *yəmhar*, *məhar*;
3*H* (*ṣlʾ* 'to hate'):
ṣälʾe (*ṣälaʾku*), *yəṣälləʾ*, *ṣäliʾu*, *yəṣlaʾ*, *ṣəlaʾ*.

Verbs with *w/y*

2*w/y* (*mwt* 'to die', *kyd* 'to go'):
mäwɔtä (*motä*)/*käyädä* (*kädä*), *yɔkäyyɔd*/*yɔmɔwwɔt*, *käydu*/*mäwitu* (*moytu*),
   yɔkyäd (*yɔkid*)/*yɔmwät* (*yɔmut*), *kɔyäd* (*kid*)/*mɔwät* (*mut*);
3*w/y* (*däläwä* 'to be strong'/*bäkäyä* 'to weep'):
däläwä (*dälo*, *dälä*)/*bäkäyä* (*bäkä*), *yɔdälläw* (*yɔdällu*)/*yɔbäkkɔy* (*yɔbäkki*),
   däliwu (*dälyu*)/*bäkyu*, *yɔdlɔw* (*yɔdlo*)/*yɔbkäy* (*yɔbkä*), *dɔlɔw* (*dɔlo*)/
   sɔtäy (*sɔtä*). *w* in verbs 3*w* is often replaced by *y* (thus *däläwä* along-
   side *däläyä*).

Adverbs and Other Parts of Speech

Adverbs of time: *lomi* 'today', *sɔbaḥ* 'tomorrow', *tɔmali* 'yesterday', *šɔʿu* 'this
moment'; of place: *laʿli* 'above', *taḥti* 'below' (see also p. 434); interrogative:
ʾäbäy 'where?', *mäʾas* 'when?', *kɔndäy* 'how much?', *kämäy* 'how?'.

The most common prepositions are *nɔ-* 'to' (also direct and indirect object (see
p. 432)), *bɔ-* 'by, with the help of', *ʾab* 'in', *nab* 'towards', *kab* (*ʾɔnkab*) 'from,
than' (see p. 434), *mɔs* 'with, together with', *kɔsaʿ* 'up to, until', *wɔšti* 'in, in the
middle'. There exist compound prepositions, e.g. *ʾab lɔʿli* 'on, over'. A number
of prepositions is employed in combination with postpositions, e.g. *bɔ ... gɔze* 'at'
(temporal): *bäḥase tädros gɔze* 'at the time of the Emperor Theodoros'.

Interjections: *way, wɔyläy* 'woe is me!', *ʾakko* 'sure!', *ʾɔlɔl, ḥoyä* 'long live!',
ʾɔmbi 'no!, by no means!'.

Syntax

Word Order

The normal word order of the Tigrinya simple sentence is SOV: *ʾɔtu säbʾay
gɔrawti yɔḥarrɔs* 'the man plows the fields'. Sometimes the object is placed at the
beginning: in this case the whole sentence, carrying a certain degree of emphasis,
is organized as a "relative complex" or "cleft construction" (see p. 443). Exam-
ples: *ʾɔta dorho zɔ-hard-a wɔddi ʾɔyyu* '(it is) the man (who) strangles the chick-
en' (lit. 'the chicken - this who strangles it - the man - it is'). The position of
adverbial modifiers is free, including the beginning of the sentence: *ʾɔtu fɔre$_1$
dɔḥri nɔʾaštoy gɔze$_2$ yɔbässɔl$_3$* 'after a bit of time$_2$ the fruit$_1$ becomes ripe$_3$'; *ʾabtu
lɔʿli ḥawwi$_1$ sällämti ʾaʾman$_2$ yɔxämmɔṭu$_3$* 'they put$_3$ black stones$_2$ on the fire$_1$'.
Qualifiers (the article, adjectives, genitive with *nay*) are usually put before the
qualified nouns: *ḥadä bällih kara* 'a sharp knife'; *nay ʾItiopya rɔʾsä kätäma* 'the
capital of Ethiopia'. Likewise subordinate clauses usually come before the main
clauses.

Agreement Rules

Verbs, adjectives, personal and deictic pronouns and the article in Tigrinya usu-
ally agree with nouns in gender and number: *ʾɔtom kahnat ʾɔtu kɔddaseʾom mɔs*

wɔddəʾu ... nabtu dägge-sälam yəmäṣu 'when the priests finish their service they go right to the door of the church'; *nəssatän käʾa dəmṣän ʿaw ʾabbilän bäkäya* 'then they (women) raised their voices and wept'. However, the adjective agrees in gender in the singular only (see p. 434). Since the grammatical gender of most inanimate beings is highly unstable, the agreement may fluctuate even within one and the same text (see p. 431). Nouns denoting collectives (*həzbi* 'people', *särawit* 'army' etc.) may agree with in singular or plural.

Assertions, Negations
The most common assertive adverb in Tigrinya is *ʾəwwä* 'yes'. The compound verbs *hərray bälä* and *ʾəšši bälä* are widely used as affirmatives: *däs ʾəntäbälo hərray yəbəl* ... 'if he is pleased, he says "yes" ...'.

The most widespread verbal negative is the confix *ʾay-...-n*: *nəhna mənəm hadä nägär ʾay-gäbärna-n* 'we did not do anything'; without *-n* in the jussive (*ʾay-yəmut* 'let him not die!'. Another common negative is *ʾayfal* (very often with pronominal suffixes): *ʾayfal-kən däkkäy* 'no, my children!'. The verb *ʾəmbi bälä* means 'to say "no", to refuse'. To express 'there is no ...' *yällon* (conjugated as *ʾallo*) or *yälbon* (not conjugated) is employed; *nabtu hagär ʿabäyti kätämatat yälbon* 'there are no big cities in this country'. The negative of the copula is *ʾay-konän naytän ʾanəsti təmhərti bəzuh ʾaykonän* 'the women's education is not much'.

Questions
A general question is introduced by the postposed particle *-do* attached to that part of the sentence which is the main object of the question: *kənəwɔssəd-do* 'can we take [it]?'; *dəhan-do ʾallokum* 'are you well?'. The element *dəyyu* (*do* prefixed to *ʾəyyu*) serves to express 'is it ...?': *hakki dəyyu ʾəttəbəlänni zälla?* 'is it right what she says?'.

Pronominal questions are introduced by the interrogative pronouns (see p. 430) and interrogative adverbs (p. 441):

ʾəntaway ʾətu säb? 'who is that man?'
ʾəntay yədälli 'what does he want?'
məʾəntəməntay kämzuy təgäbbər? 'why do you act in this way?'
kämäy hadärkum? 'how have you spent the night?'
ʾəta säbäyti kab ʾabäy mäṣʾet? 'from where did this woman come?'

Coordination, Conditionals
The commonest coordinating conjunction in Tigrinya is *-n* suffixed to every one of the conjointed elements: *nay mäskäl mələkkət nabtu gäṣu-n ləbbu-n käbdu-n ʾaʾgaru-n yəgäbrällu* 'he makes the sign of the cross over his face, his heart, his belly and his feet'; *ʾəta kab kullän kätämatat ʾerətra zəʿabäyät-ən zəṣäbäxät-ən kätäma ʾasmära ʾiyya* 'Asmara is the biggest and the most beautiful among the cities of Eritrea' etc. Two clauses are connected by *ʾəwwən* 'and' usually placed

after the first phrase in the second clause: *nay ḥadä mähayyəm kʷɔlʿa bətəmhərtu bəzhat däḇtärä kəkɔwwən yəkəʾəl nay ḥadä däḇtära kʷɔlʿa ʾəwwən mähayyam kəkɔwwən yəkəʾəl* 'a child of an illiterate may become a *däbtära* if he studies much, and a child of a *däbtära* may be illiterate'. Alternative is expressed by *wɔy* (*wɔyəm*): *ḥadä kərši wɔyəm kəršən ʾaladən yəhəḇə-wo* 'he gives him one thaler or one thaler and a half'. The commonest adversative conjunctions are *gən* (*nägär gən*) and *ʾəmbär: ḥadä ʿaynät ʾammäḥalal ʾəwwən ʾallo nägär gən ʾəzu mäḥalla nay ṣawɔta mäḥalla ʾəyyu* 'there is another kind of oath, but it is an oath for fun'; *gar däʾa yəkfäl ʾəmbär bəhənux ʾayyəmut* 'let him certainly pay the blood money, but he must not be strangled (must not die strangled)'. *ʾəmbär* is placed at the end of the positive element so that a translation 'and not, but not' is appropriate for it: *ʾab Mäxälä ʾəmbär ʾab ʾAddis ʾaḇäḇa täwɔlädku* 'I was born in Mäxälä and not in Addis Ababa'.

Conditional clauses are marked by *ʾəntä* 'if' followed by the perfect or the gerund: *ʾətu ʿədaga därahu kətrəʾi ʾəntä-kädka ... ʿassärtä bəxərši kəšəyyäṭa tərəʾi* 'if you go to see the chicken market, you will see that they are sold ten for a thaler'. They may also be marked by *ʾəntäkonä* (+*zə-*) + verb (lit. 'if it is (that) ...'): *ʾətu xärəṣi bäməngəsti ʾəntäkonä zə-kəffäl ʾətu gäzaʾi dämozu yəhəḇo* 'if the customer is paid by the government, it is the ruler who gives him his salary'. Clauses expressing an unreal condition are marked by *ʾəntä* (*ʾəntäzə-*) + imperfect; the verb of the apodosis (in the perfect) is preceded by *mə-* and may be followed by *näḇärä* (in the gerund): *ʾətu ʾanbäsa ʾəntäzə-xättəl naḇtu bäräka mə-täräfä näḇiru* 'if he had not killed the lion, he would remain in the thicket'; *ʾAdam ḥaṭiʾat zäygäḇärä ʾəntäzə-kɔwwən nəḥna ḥəggusat mə-konna* 'if Adam had not sinned, we would be happy'.

Subordination

Complement clauses are marked by *kämzə-* 'that': *ʾəgziʾaḇher nəḥəzbu kämzə-ḇäšhom ʾəngera kämzə-haḇom sämʿet* 'she heard that God visited his people and gave them bread'.

Temporal clauses are marked by *məs* preceding the verb in the perfect: *ʾəzuy məs gäḇärä kämzuy balo ...* 'when he did it, he told him thus ...'; *kämzuy məs bälätto ḥafiru nab bäräkaʾu kädä* 'when she told him in this way, he went to his thicket, ashamed'. Other temporal conjunctions are *kəsaʿ zə́* 'until', *ʾənkab zə-* 'since' (*zə-* prefixed to the verb of the subordinate clause), e.g. *kəsaʿ ʾətu mäʿalti zəḇäṣṣəḥ ʾətom wɔläddi ʾəngera zəḇəllaʿ kässänadəwu yəṣänḥu* 'until this day comes, the parents spend the time preparing the bread that will be eaten'.

Relative clauses are introduced by *zə-* and, like all other qualifiers, precede the noun qualified: *ʾətu₁ ʾanbäsa₂ zə₃xätälä₄ säb₅ bəḥakki zəfärräḥ ʾaykonän* 'the₁ man₅ who₃ killed₄ a lion₂, indeed has no fear'. If the noun qualified is a direct object and, peculiarly, an adverbial modifier, a corresponding object suffix may be attached to the verb of the relative clause: *ḥadä ḥadä däḇtära ḥadä ḥadä zäynəfälṭ-o ʿaynät [ṣolot] dägimu* 'a *däbtära* reciting a kind [of prayer] that we do not know'; *naḇtu bäräka ʾəzom ʾansəsatat zälläwə-wo yəkädu* 'they go to the

thicket in which there are wild animals' (lit. 'to the thicket - wild animals - are in it (object suffix) - they go'). Relative clauses are very often combined with *'ɔyyu:* *'ɔtu₁ säb₂ zɔ₃-x̣ätälä₄ säb₅ zɔ₆-färd₇-og mɔngɔsti₉ 'ɔyyu₁₀* 'the man who killed another man is tried by the government' (lit. '[that] who₆ tries₇-him₈ the₁ man₅ who₃ killed₄ [another] man₂ is₁₀ [the] government₉').

Copular and Possessive Expressions

The copula and the *verbum substantivum* in Tigrinya are conjugated in the following way:

Table 18.7   Copula

		Masculine	Common	Feminine
Sg.	1		*'ɔyyä/'alloku*	
	2	*'ika ('ɔka)/'alloka*		*'iki ('ɔki)/'alloki*
	3	*'ɔyyu/'allo*		*'ɔyya/'alla*
Pl.	1		*'ina/'allona*	
	2	*'ikum ('ɔkum)/'allokum*		*'ikɔn ('ɔkɔn)/'allokɔn*
	3	*'ɔyyom/'alläwu*		*'ɔyyän/'alläwa*

The copula is used in sentences with nominal predicate in the present: *ḥawwɔy dɔka 'ɔyyu* 'my brother is poor'; *'abbu'om ṭäbbib 'ɔyyu* 'their father is a smith'; *zar sɔm färäs 'ɔyyu* 'zar is the name of a horse'. The verbs *näbärä* and *konä* (in the future) replace the copula in the past and in the future: *kɔlɔtti'om 'awwɔn säräx̣ti näbäru* 'both of them were thieves'; *ʿabiy säb kɔkɔwwɔn 'ɔyyu* 'he will be an important person'.

The verb *'allo* denotes existence and presence: *'ab gäzay 'alläwu* 'they are in my house'; *'abtu ṭäräf mägäggi na'ɔštoy gäzawɔtti 'allo* 'on the border of the road there are some houses'.

Existence in the past and in the future is expressed by *näbärä* and *konä*, respectively; in the last case the verb *hallɔwä* is also used.

The verb *'allo* with object suffixes is used to express possession. The first consonant of the suffix is geminated; the form of the verb depends upon the gender/number of the object possessed: *nab rɔhux̣ hagär k"ɔṣoro 'allo-nni* 'I have a meeting in a remote country'; *'ɔta säbäyti ḥantit g"al 'allatta* 'this woman has one daughter'.

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19 Tigré

Shlomo Raz

Tigré is spoken mainly in Eritrea, and is the northernmost Ethiopian Semitic tongue. The majority of speakers are Muslims (above 60 percent); most of the rest are Christians. The number of speakers is put at between quarter and half a million (according to the Ministry of Education of Eritrea, February 1997, it is about 800,000). The Mansaʿ dialect is the only speech which has a corpus of written material, and as such may approach the concept of standard language. Written material consists of Bible translations, especially by members of the Swedish Evangelical mission, collections of texts in prose and verse and grammatical work by missionaries and European scholars. Two varieties of speech may be mentioned: first, that of the nomad tribe of Beni ʿAmer who live close to the border with the Sudan. They are bilinguals, the other language they speak being the non-Semitic Beja, which is the substrate Cushitic language of Tigré as a whole. Their Tigré differs in many ways from that of Mansaʿ. Secondly, the Tigré language is used as a lingua franca along the Ethiopian coast of the Red Sea, notably in Massawa where it is is heavily influenced by spoken Arabic, which is another language medium in the same area.

Phonology

Consonants

The phonemic inventory of Tigré consonants consists of twenty-four phonemes, as shown on p. 447. The corresponding inventory of graphemes of traditional Ethiopic orthography by which most Tigré texts have been rendered includes also *p/ṗ*, *č*, and *x*, which appear in a small number of foreign words. All consonants except laryngeals (ʾ, ʿ, *ḥ*, *ḫ*) and semivowels (*w*, *y*) are subject to gemination. *č*, *š*, *ǧ* and *ž* may appear as the palatalized forms of *t*, *s*, *d*, and *z* (*ž* occurring only in this phonetic context). This palatalization takes place with dentals and alveolars, in final position, in forms to which the sg.1c. pronoun suffix is attached, e.g. *masānit* 'friends', *masāničče* 'my friends'; *gəzāz* 'glass', *gəzāžže* 'my glass' etc. The articulatory position of the variants of /q/ is post-velar, i.e. the same as that of /ʾ/ or /ʿ/; examples: [ʾaʿbər] 'tombs' (/ʾaqbər/), [maʾrəḥ] 'condition' (/maqrəḥ/). Followed by a laryngeal or by an ejective anywhere in the word, /ʾ/ and /ʿ/ may be in free variation with one another, as in [ʾarqay/ʿarqay] 'bed' (/ʿarqay/); [ʾalləṣ/ʿalləṣ] 'hawk' (/ʾalləṣ/).

b	d	g	ǧ	ʿ	
	t	k			
	ṭ	q			ʾ
			č̣		
f	z			ḥ	h
	s				
			ṣ̌		
	š		č		
m	n				
	l				
	r				
w		y			

Vowels

i				u
	e		o	
		a		
		ā		

From the articulatory point of view each vowel is distinctive in regard to tongue height and tongue advancement, excluding the *a/ā* contrast which is in terms of vowel quantity, e.g. /gadəm/ 'now then, so, thus', /gādəm/ 'plain, country'; /man/ 'who?', /mān/ 'right (hand)'; /baʿal/ 'master, owner', /baʿāl/ 'holy day, holiday'. Exceptional is the case of words with a final CV-type syllable, when v is a low front vowel. In such a case no phonemic contrast of quality may occur and vowel duration is subject to stress and syllabic structure, e.g. [sábka] or [sabkā́] 'your people' (/sabka/); [sabkā́-tom] 'they are your people' (/sabka tom/); [ḥōṣa] or [ḥoṣā́] 'sand' (/ḥoṣa/). Instead of the *a/ā* contrast, Leslau (1945) and others prefer the use of the phonemic contrast *ä/a* which marks a difference of quality only between all vowels of Tigré. Such an approach facilitates the phonological description and also brings Tigré into line with some prominent Ethiopian Semitic languages, e.g. Amharic and Tigrinya, yet it ignores the existence of phonemic duration and its role in the syllabic structure and the accentual system (for a lengthier discussion of the problem see Raz 1983: 6–11).

Suprasegmental Features
The chain of speech stress in Tigré is non-distinctive and shifts easily from one syllable to the other. Even single words in isolation may be devoid of lexical stress, as in *dáʾam* or *daʾám* 'but'.

Morphology

Pronouns

The independent personal pronouns in Tigré are as follows:

Singular		Plural	
1c. *ʾana*		1c. *ḥana*	
2m. *ʾənta*	2f. *ʾənti*	2m. *ʾəntum*	2f. *ʾəntən*
3m. *hətu*	3f. *həta*	3m. *hətom*	3f. *hətan*

The forms used as pronominal suffixes are as follows (the order of forms is the same as in the previous table): sg.: *-ye, -ka, -ki, -u, -a*; pl.: *-na, -kum, kən, -om, -an*. In conjunction with verbs the pronominal suffixes have the following forms: sg.: *-ni/-nni, -ka/-kka, -ki/-kki, -o/-wo/-yo/-hu/-yu, -a/-wa/-ya/-ha*; pl.: *-na/-nna, -kum/-kkum, -kən/-kkən, -om/-wom/-yom/-hom, -an/-wan/-yan/-han*.

Reflexive, Reciprocal, Possessive, Interrogative and Relative Pronouns
For the reflexive pronoun the forms *nos* (*nafs* in the translation of the New Testament in Tigré), *raʾas* 'self' are used, e.g. *nosa təšannaqat* 'she hanged herself'; *raʾasu* 'he himself'. The reciprocal pronoun is expressed by means of *nosnos* or *ḥəd*, e.g. *ʾət ləblo nosnosom tahagāgaw* 'they conferred with one another saying ...'. *ḥəd* is not conjugated and is usually used of two, e.g. *ḥəd ʾadməʿaw* 'they struck at each other'. The independent possessive pronoun consists of inflected *nāy*, e.g. *nāye* 'mine'. The interrogative pronouns are as follows: *mi* 'what?'; *man* 'who?, whose?, whom?'; *ʾayi* (inflected) 'which?'. The relative particle (= definite article, cf. Deictics and Definiteness, p. 450) is usually attached to the verb, immediately preceding it, e.g. ... *dəgge wānin latətbahal* 'which is called "animal village"'.

Nouns

Gender
The gender of the singular noun is statable lexically, the plural form gender being subject to the state of animateness of the noun, e.g. masculine nouns: *kətāb* 'book', *gəndāy* 'log of wood', *fəluy* 'bull calf', *wad* 'son', *ʾənās* 'man'; feminine nouns: *gabay* 'road', *fəlit* 'female calf', *walat* 'daughter', *ʾəssit* 'woman' (note the *t* ending of the feminine animate form in the above examples).

Nouns Qualified by Numerals
A noun qualified by a numeral occurs in the singular form, e.g. *kəlʾe waʾat* 'two cows' (pl. *ʾaḥa* 'cows', *salas ḥāl* 'three maternal uncles' (pl. *ḥālotāt* 'maternal uncles').

The Basic Forms of Noun Formation

These are the collectives or the countable singulars. The collective nouns never occur with numerals, whereas the countable singulars may be modified by a numeral, e.g. *gabil* (coll.) 'people, tribes, nation', *gabilat* (countable sg.) '(one) tribe', *gabāyəl* (pl.) 'tribes, people'. *qataf* 'leaves, foliage', *qatfat* 'leaf', *ʾaqaṭṭəf* 'leaves'. The concord typical of the collective is masculine singular, with one exception: animate nouns may have either singular or plural concord. The singulative is derived from the collective by means of suffixes. Either (1) *-at*, the gender of which is feminine, or less frequently, (2) the suffix *-āy*, the gender of which is masculine, is added, as in *rəšāš* 'lead', *rəšāšat* 'a bullet, a piece of lead', *bun* 'coffee', *bunat* 'a coffee bush/grain', *qadar* 'gnats', *qadrāy* 'a gnat'.

Plural Forms

These are suffixed plurals and broken plurals. Some suffixed plural forms are: *-āt*, *-otāt*, examples *gār* 'matter, thing', pl. *gārāt*; *ǧabhat* 'forehead', pl. *ǧabhotāt*. The broken plurals and the countable singulars are not predictable from each other's forms, though certain singular patterns correspond more often than not to certain plural patterns. Some types typical of the broken plural forms are as follows: *ʾaCaCCəC, CaCaCCəC, CaCaCCi(t), ʾaCCVC, ʾaCəCCat, CVCVC*. Some examples: *balasat* 'fig', pl. *ʾaballəs*; *kəffal* 'portion', pl. *kafaffəl*; *kadbet* 'floor', pl. *kadabbi(t)*.

Suffixed Derivatives

In addition to the formation of suffixed nouns dealt with hitherto, there are other noun plus suffix formations which form semantic classes of their own, as follows: diminutives ('a small'), e.g. *bāb* 'gate, door', *bebāy* 'small door, wicket', *mawrad* 'ring', *mawredat* 'little ring'; pejoratives ('a poor, bad'), e.g. *bet* 'house', *betāy* ruined house, house in poor condition', *ʾənās* 'man', *ʾənesat* 'worthless man'; augmentatives ('a big, large'), e.g. *baʕat* 'cave', *baʕāy* 'large cave'; paucatives ('a few'), e.g. *waʾat* 'cow', *waʕāt* 'a few cows'); paucative pejoratives ('some poor, bad'), e.g. *sab* 'men, people', *sabʾetām* 'a few people (paucative)', *sabʾetāt* 'some poor (= miserable) people'. Paucatives imply plural; the rest are singular and countable.

Participles

The active participle expresses the agent (the doer) and is also used in the formation of compound tenses (see p. 454), the passive one is mainly used as an adjective (see p. 450). All active participles excluding triradicals of type A (see p. 451) make use of the prefix *ma-* and the suffix *-ay*, and all passive participles have the ultimate vowel *-u-* (sg. m.) and *-ə-* (sg. f.).

   Examples of active participles, type A: *qābəl* 'former', *qāblat* (f.), *qāblām* (pl. m.) *qāblāt* (pl. f.); Passive participle type A: *qərub* 'near, kin', *qərbət/qəreb* (f.), *qərubām* (pl. m.), *qərubāt* (pl. f.).

   Patterns of type B, active participle: *maqatlāy, maqatlāyt* (f.), *maqatlat* (pl. m.

and f.). Examples: *ma'amrāy* 'scientist', *ma'amrāyt* (f.), *ma'amrat* (pl.); passive participle: *qəttul, qəttəl/qəttələt, qəttulām, qəttulāt.*

Type C, active participle: *maqātlāy, maqātlāyt* (f.), *maqātlat* (pl. m. and f.). Examples: *mawālmāy* 'slanderer', *mawālmāyt* (f.), *mawālmat* (pl.); passive participle: *qutul, qutlət* (f.), *qutulām* (pl. m.), *qutulāt* (pl. f.).

Infinitives
Type A verbs yield the forms *qatil, qətlat, qətlo, məqtāl, qətle, qatəl.* The form *qatil* seems to be the more frequent.

Nouns Denoting the Instrument, Place or Result
The name of the instrument has the prefix *ma-* and the suffix *-i* attached to the stem, the pattern being *maqtali,* e.g. *masawari* 'brush' (*sawara* 'to paint', type B, semivowels are not geminated). The pattern *məqtāl* is used in the expression of the name of the place, as in *məqwāl,* 'hiding place' (root *kwl*). The name of product or result (= resultative) is expressed by means of the pattern *qəttāl,* e.g. *ḥərrād* 'that which is/has been slaughtered', *ḥəddāg* 'that which is/has been left'.

Suffixes -nna and -nnat
Abstract nouns having one of these suffixes are constructed from the stem *CəCəC* (triradicals), to which the suffix is added by means of the juncture feature *ə,* e.g. *bəṣṣəḥənna/bəṣṣəḥənnat* 'maturity'.

Prepositions
The most important ones are: *nāy* 'of', *'əl* 'to, for', *'əb* 'about (a topic), with (comitative), within', *'ət* 'in, on, to, against', *mən* 'from', *'əgəl* 'for, to', *kəm* 'like', *məsəl* 'with (comitative)', *'əgəl* 'as for'; compounds *mən la'al* 'above', *mən taḥat* 'under', *'ət 'af* 'before' etc.

Adjectives
For the most part, the adjective precedes the noun which it qualifies, e.g. *bāb 'abi* 'big gate'. Adjectives may have suffixed plurals or broken plurals. The plural suffixes *-(y)ām* (m.) and *-(y)āt* (f.), are regularly used with participial adjectives (triradical, type A, see p. 449), e.g. *nāfə'* 'useful', *nāf'at* (sg. f.), *nāf'ām* (pl. m.), *nāf'āt* (pl. f.); *sabur* 'broken', *səbər/səbrat* (sg. f.), *səburām* (pl. m.), *səburāt* (pl. f.).

Deictics

Definiteness
The invariable particle *la-* serves as the definite article (cf. Pronouns, p. 448). The usual order encountered is article + qualifier + qualified, as in *lagendāb 'ənās* 'the old man'.

Demonstratives

The demonstrative forms for near objects are: *ʾəlli* (sg. m.), *ʾəlla* (sg. f.), *ʾəllom* (pl. m.), *ʾəllan* (pl. f.). For distant objects, the forms are (some variants occur) *lohay, loha, lohom, lohan*. The noun is preceded by the demonstrative adjective in the case of distant objects, e.g. *ʾəllan ʾamʿəlāt* 'these days', *ʾəb laʾawkād lohay* 'at that time'. The demonstrative adjective can both precede and follow the noun, as in *loha ʾakān loha* 'that place'.

Numerals

The cardinal numerals are as follows:

1	*worot/woro*	20	*ʿəsra*
	ḥatte (f.)	30	*salāsa*
2	*kəlʾot* (m.)	40	*ʾarbəʿa*
	kəlʾe (f.)	50	*ḥəmsa*
3	*salas*	60	*səssa*
4	*ʾarbaʿ*	70	*sabʿa*
5	*ḥaməs*	80	*samānya*
6	*səs*	90	*saʿa/tasʿa*
7	*sabuʿ*	100	*məʾət* (sg.)
8	*samān*		*ʾamʾāt* (pl.)
9	*səʿ*	1,000	*šəḥ* (sg.)
10	*ʿasər*		*ʾašḥāt* (pl.)

The Arabic loanword *ʾalf* '1,000', pl. *ʾālāf*, is occasionally used. To denote an unspecified large number the word *ʾəlf* (whose plural is also *ʾālāf*) may be used. *ʾəlf* is also used to denote '10,000'. The numbers 11 to 19 are expressed by placing the units numeral immediately after the invariable element *ʿasər* '10' while an optional *-wa* 'and' may connect both elements, e.g. *ʿasər (wa)ḥatte* 'eleven' (f.).

The ordinal number 'first' is expressed by *qadām* (m.), *qadāmit* (f.), *qadāmyām* (pl. m.), *qadāmyāt* (pl. f. [cf. Participles, pp. 449–50]). Ordinal numbers from second to eleventh are gender sensitive. The masculine has the patterns *CāCəC* and *CāCCāy*, and the feminine is *CāCCāyt*. For eleventh to nineteenth, invariable *ʿasər* is followed by the appropriate ordinal, with an optional *wa-* in between. *qadāmāy* (m.), *qadāmāyt* (f.) is used in the case of the numeral '11', e.g. *ʿasər waqadāmāy* 'eleventh'. The ending *-āy* forms ordinal numerals for round tens, hundreds and thousands.

Verbs

Types A, B, C and D

Type A is the basic stem in relation to which the form and meaning of the other types is considered. Type B has the medial radical geminated, e.g. *ʿallaba* 'to count'. Type C has a long *ā* after the first radical e.g. *dāgama* 'to tell'. Type D is

characterized by a repetition of the mid radical, with an *ā* in between, e.g. *balālasa* 'to answer repeatedly'.

Negation of the Verb
A verb is rendered negative by means of the prefixed article *ʾi-*, e.g. *ʾi-sarqa* 'he did not steal'.

Prefixed Derivatives of the Four Types of Verb
Verbs of each of the four types may occur with a preformative whose function and meaning is usually related to coexisting verbs of other types and derivatives. These are four preformatives: *tə-*, *ʾa-*, *ʾat-* and *ʾatta-*. In general terms *tə-* is used to express the passive form of type A and B verbs and reciprocity in type C and D verbs. The other three preformatives are used to express various aspects of the notion of causation.

Basic Morphological Categories of the Verb
Tigré has three morphological categories of the verb: perfect, imperfect and jussive.

Verb Inflection
Type A: *qanṣa* 'to get up':

Sg. 1	*qanaṣko*	Pl. 1	*qanaṣna*
Sg. 2m.	*qanaṣka*	Pl. 2m.	*qanaṣkum*
f.	*qanaṣki*	f.	*qanaṣkən*
Sg. 3m.	*qanṣa*	Pl. 3m.	*qanṣaw*
f.	*qanṣat*	f.	*qanṣaya*

Imperfect:

Sg. 1	*ʾəqannəṣ*	Pl. 1	*ʾənqannəṣ*
Sg. 2m.	*təqannəṣ*	Pl. 2m.	*təqanṣo*
f.	*təqanṣi*	f.	*təqanṣa*
Sg. 3m.	*ləqannəṣ*	Pl. 3m.	*ləqanṣo*
f.	*təqannəṣ*	f.	*ləqanṣa*

Jussive:

Sg. 1	*ʾəqnaṣ*	Pl. 1	*nəqnaṣ*
Sg. 2m.	*təqnaṣ*	Pl. 2m.	*təqnaṣo*
f.	*təqnaṣi*	f.	*təqnaṣa*
Sg. 3m.	*ləqnaṣ*	Pl. 3m.	*ləqnaṣo*
f.	*təqnaṣ*	f.	*ləqnaṣa*

Imperative (derived from the jussive): *qənaṣ, qənaṣi, qənaṣo, qənaṣa.*

Type B, perfect: *mazzana* 'to weigh'; imperfect/jussive: *ləmazzən* (sg. 3m.), *təmazni* (sg. 2f.); imperative: *mazzən, mazni*, etc.

Type C, perfect: *kātaba* 'to vaccinate'; imperfect/jussive *ləkātəb*; imperative: *kātəb.*

Type D, perfect: *balālasa* 'to answer repeatedly'; imperfect/jussive: *ləbalāləs*; imperative: *balāləs.*

Prefix *tə-.* After *tə-*, the distinction between A and B is neutralized. Perfect: *təqarrača* 'to be cut off'; imperfect /jussive: *lətqarrač*; imperative: *təqarrač. tə-*C: *təqābala* 'to meet'; imperfect/jussive: *lətqābal*; imperative: *təqābal. tə-*D: *tənabābara* 'to live a bit on agriculture and a bit on cattle herding'; imperfect/ jussive: *lətnabābar*; imperative: *tənabābar.*

*ʾa-*A: This is the sole instance of a triradical derivative where a formal distinction between the imperfect and the jussive morphological categories is maintained. Perfect: *ʾangafa* 'to save, to let escape'; imperfect: *lanaggəf*; jussive: *langəf*; imperative: *ʾangəf.*

*ʾa-*B: *ʾabaṭṭala* 'to stop, to bring to a standstill'; imperfect/jussive: *labaṭṭəl*; imperative: *ʾabaṭṭəl.*

*ʾa-*C, perfect: *ʾaṣābaṭa* 'to get hold of'; imperfect/jussive: *laṣābət*; imperative: *ʾaṣābət.*

There is no **ʾa-*D type. Its place in the system is taken by *ʾat-*D.

Prefix *ʾat-*: There is no **ʾat-*A (except with initial laryngeals). Its place in the system is taken by *ʾa-*A and *ʾatta-*A.

*ʾat-*B, perfect: *ʾatbaggasa* 'to cause to move off'; imperfect/jussive: *latbaggəs*; imperative: *ʾatbaggəs.*

*ʾat-*C, perfect: *ʾatrāsana* 'to heat'; imperfect/jussive: *latrāsən*; imperative: *ʾatrāsən.*

*ʾat-*D, perfect: *ʾatqabābala* 'to go to and fro'; imperfect/jussive: *latqabābəl*; imperative: *ʾatqabābəl.*

Prefix *ʾatta-* is functional only with type A verbs. *ʾatta-*A, perfect: *ʾattaqrača* 'to let cut off'; imperfect/jussive: *lattaqrač.*

Quadriradical Verbs
The quadriradicals follow the order 1.2.3.4. as in *ʾambata* 'to begin', 1.2.1.2. as in *bačbača* 'to mix', and 1.2.3.3. as in *qarṭaṭa* 'to break into pieces'.

Compound Verbs
The first element in the compound may exist as a lexical entity or be dependent upon the occurrence of the compound. The second element of the compound is limited to three verbs: *bela* 'to say', *wada* 'to do, to make', and *gaʾa* 'to become'. Examples: *baḥal bela* 'to pardon, to excuse', *bərəf wada* 'to clear off', *ḥən gaʾa* 'to become speechless'.

Complex Expressions of Time Relations
More specific time relations than those mentioned on p. 452 can be expressed by means of a complex.

ʾǝgǝl + jussive + *tu* as the expression of futurity. This complex is regularly used in the expression of future tense, e.g. *fagǝr baṣǝʿ ʾǝgǝl nigis tu* 'tomorrow we shall go to Massawa' (lit. 'tomorrow Massawa in order that we should go [it] is'). This complex is also used to express imminence.

Imperfect + auxiliary (*halla* or *ʾalla*). The complex imperfect + *halla* (the verb of existence in the present) is essentially used to express an activity in progress at the time of speaking, or an actual state. This use resembles in meaning the English "present continuous" or "progressive," e.g. *ḥǝna ḥǝdāy nǝtfarrar hallena* 'we are going to the wedding'.

ʾǝndo + perfect + *ʿala (ṣanḥa)*. The notion expressed by this complex refers to (a result of) an event or a situation whose beginning (and end) is previous to another specified, or understood, point of time (approximating to the meaning of the past-perfect tense in English), e.g. *hǝtu ʾǝgǝl laʾǝndo ḥawana laʿala ʾamlakot rabbi ḥaddasayu* 'he renewed the adoration of God which had been weakened'.

Perfect + *ka* + auxiliary. This complex consists of a verb in the perfect followed by the conjunction *ka-* (meaning 'and [then]') which is itself followed by an auxiliary verb. The auxiliary verb can be *halla*, *ʿala* or *ṣanḥa*. Perfect + *ka* + *halla* denotes the perfective past (approximating to the meaning of the present-perfect tense in English). Perfect + *ka* + *ʿala* expresses the past-perfect, whereas the verb *ṣanḥa* introduces the notion of 'already', e.g. *nafsu gesat kaṣanḥat* 'he had already died' (lit. 'his soul went and waited').

Participle + auxiliary. The complex participle + *halla* is mainly used to denote the present-perfect, e.g. *nǝgus kabasa māṣǝʾ halla* 'the king of Kabasa has arrived'. The complex participle + *ʿala/ṣanḥa* denotes the past-perfect.

Prepositions, Adverbs, Conjunctions, Interjections

Prepositions
Many adverbs and prepositions are similar in form. Distinction between such adverbs and prepositions is made here according to whether they lack or possess a complement (almost all prepositions may have pronominal suffixes), e.g. *mǝsǝl nabraw* 'they lived together' (adverb); *mǝsǝlka ʾǝgayǝs* 'I shall go with you' (preposition).

Adverbs
The linguistic stock from which adverbs are constructed comprises nouns, adjectives, infinitives, participles, particles, etc. Some words and particles function only as adverbs. The most frequent structure containing a noun or a verbal noun, is that of the nominal element preceded by the preposition *ʾǝb* 'with, by' (see Prepositions, above), e.g. *ʾǝb šafāg* 'quickly'.

Conjunctions
The main coordinating conjunctions are as follows: *wa-* 'and', *-ma* 'or', *wok* 'or', *ka-* 'and, and so, therefore' (corresponding to *fa-* in CA), *daʾam* 'but', *daʾikon* 'on the contrary, rather'.

Interjections
These are (1) words used as interjections only and are morphologically unanalyzable, and (2) words otherwise belonging to other parts of speech, e.g. (1) *has/šat* 'be quiet!', *həʾ/waha* 'ah!', *ʾay/ʾayo/yəwu* 'woe!', *gaddoʾ* 'oh wonder!'. (2) *həsse* 'excellent!' (*həsse*, pl. *həssetāt* 'honor, good deed' – a noun; √*hys*); *kən* 'away!' (*kən* 'there' – an adverb).

Syntax

Word Order in the Sentence
There are three main features of word arrangement typical of the Tigré sentence, as follows:

1 The main verb is regularly placed at the end of the sentence.
2 Complements and qualifiers precede the words they qualify.
3 The subject is usually placed at the beginning of the sentence, e.g. *worot ʾənās məsəl nəwāyu waṣewahu ʾət qišot ʿala* 'a man lived with his family and his cattle in a hamlet' (lit. 'one man with his cattle and his family in hamlet was').

A common phenomenon in speech is the word order in which a noun other than the subject heads the sentence. The word which occupies first place in the sentence is the topic, e.g. *ʾəssit ḥilata ḥawānit ta* 'the strength of a woman is her weakness' (lit. 'woman her-strength weakness [it] is').

Nominal Sentences
In sentences whose predicate is a nominal form, a copula pronoun must intervene. The paradigm of the independent copula consists of the following forms: singular: *tu* (m.), *ta* (f.); plural: *tom* (m.), *tan* (f.). In the first and second person, the forms encountered are those of the first and second person personal pronouns (see p. 448). Examples: *ʾana mən gabil mansaʿ ʾana* 'I am from the tribe of Mansaʿ'; *sab mansaʿ mən badirom kəstān tom* 'the people of Mansaʿ are Christian from long ago'. In the negative *tu* is replaced by the suppletive fossilized form *ʾikon*, as in: *higāye rətuʿ ʾikon* 'my speech is not correct'.

Expression of Existence and Possession
To express the notion of 'to be, to exist' (including the locative 'there is') in the present tense, the verb *halla* (type B, √*hlw*) is used. When this verb occurs in the

perfect form, it has the meaning of present, e.g. *rabbi halla* 'God exists'. To denote past tense, the verb *ʿala* is used. These verbs are negated by means of the prefixed particle *ʾi-*, as in *ʾawtobus ʾiʿala. ʾəbbəlli sabab ʾəlli ʾagid ʾimaṣʾako* 'there was no bus. Because of this I have not come sooner'.

Possession is expressed by means of (1) the particle *bu* or *bədibu*, both forms being conjugated in all persons, e.g. *bəzuḥ ʾakətbat bədibye/bəye* 'I have many books', *lagaʾa ləgbaʾ wad ʾddām kəlʾe ʾəde bədibu* 'every human being has two hands'; (2) the perfect forms of the verb *halla* conjugated in the 3rd person plus the particle *ʾəl-* (see Prepositions, p. 450), conjugated in all persons, e.g. *ʾana sanni masʾalit hallet ʾəlye* 'I have a good camera'.

Conditional Sentences

Sentences expressing real conditions have in the protasis either *mən* + perfect, or perfect + *mən gabbəʾ* (fossilized), and in the apodosis any construction excluding the perfect form, e.g. *kəlʾot mən lətbaʾaso lazayəd laməsməsa ʾət worot leṭa ʾikon* 'if two persons quarrel, usually the cause is not on one [of them] only'; *gale gaʾaw mən gabəʾ ləghu dibom* 'if anything happens to them, they are grieved about them'. Sentences which express unreal conditions have in the protasis either *mən* + imperfect or *wa* + perfect, and in the apodosis *wa* + perfect, e.g. *waʾəlli kəllu mən lətkattab kəlla laʾeddina-ma ʾəgəl lalətkattabo ʾakətbat waʾiʾaklattom* 'and if all of this were to be written, even the whole world would not suffice for the books to be written about it'; *rabbi waʾihabaya* 'had not God given it (i.e. the chieftainship) to her'.

The Modal Form *wa* + Perfect

The complex *wa* + perfect may serve as a special form for modal expressions denoting the unreality or uncertainty of the notion rendered by the predicate, e.g. *ʾəlla lataḥayəs bet mən ʾaya warakba* 'where could he find a house which would be better than this (one)?'; *lawəlādkum waṣaʿankum* 'you should have let your children ride [the donkeys]'.

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20 Amharic and Argobba

Grover Hudson

Amharic has perhaps fifteen million speakers, in Africa probably fewer than only Arabic, Swahili, Hausa, and Oromo. Amharic is also the second most populous Semitic language, after just Arabic. It is the lingua franca and constitutionally recognized national language of Ethiopia, and the language of instruction of Ethiopian public education in the primary grades.

The traditional territory of the Amharas is the mountainous north-central part of Ethiopia consisting of the regions of Begemder (Gondar region), western Wello, Gojjam, and Menz. Today, however, perhaps the majority of town and city dwelling Ethiopians, except in largely Tigrinya-speaking Tigre province, are at least second-language speakers of Amharic. Except in the core Amhara areas of Shoa, Gojjam and Begemder, Amharic speakers are often bilingual, and probably most have another Ethiopian language as their native language.

Regional varieties or dialects of Amharic are recognized: of Shoa, Begemder, Gojjam and Menz–Wello. Differences are not major, and those which were mentioned by Bender et al. (1976: 90–8) are noted below. Addis Ababa is nowadays the focus of Ethiopian economic and social life, and Addis Ababa Amharic has become the prestige dialect.

Amharic manuscripts are known from the fourteenth century, and publication in Amharic has increased steadily since the turn of the century. Amharic publications today include writings of all sorts: poetry, newspapers, literary and news magazines, drama, novels, history, textbooks, etc. Amharic language magazines are published in the USA and Europe to serve the Ethiopian expatriate populations there. In 1972, a national language academy was established in Ethiopia, with the purpose largely to standardize the language and, especially, to guide the expansion of the Amharic vocabulary.

In recent and probably in ancient times, Amharic has had considerable geographic spread in territory earlier populated by speakers of other languages, first the southern Agaw language of north-central Ethiopia, and recently languages of the south such as Cushitic Sidamo and Omotic Kaffa. As a result, Amharic has considerable lexical and typological similarities with these other languages. Amharic also has borrowed from Ge'ez, a practice nowadays favored for the satisfaction of needs for technical, political, and other new vocabulary. Borrowing from Italian was common, especially during the Italian occupation of 1935–1941, but

nowadays the principal source of borrowings is English.

Argobba, Amharic's sibling, is known in two separate areas: until recently west of the city of Harar, and at the eastern edge of Amhara territory about the Rift Valley escarpment towns of Ankober and Aliyu Amba in eastern Shoa. Probably most Argobba speakers are Muslims. All information reported below on the Argobba language is from Leslau 1959 and Leslau 1977.

Most sections of the survey of Amharic which follows conclude with pertinent comparative comments about Argobba, though, in some cases, information on Argobba is lacking. In some of the tables, Amharic and Argobba forms appear side by side.

Phonology

Consonants

Below are shown the thirty-one consonant phonemes of Amharic; vl = voiceless, vd = voiced, em = emphatic. The consonant phonemes have the phonetic values generally suggested by their symbolization, except as follows: the emphatic consonants are glottalic ejectives; $\check{n}$ is IPA $ɲ$, and, following common practice, the emphatic (voiceless) velar is here written q rather than $k̟$.

vl	p	t		k, k^w	$ʾ$
vd	b	d		g, g^w	
em	$ṗ$	$ṭ$		q, q^w	
vl			$č$		
vd			$ǰ$		
em			$č̣$		
vl	f	s	$š$	h, h^w	
vd		z	$ž$		
em		$ṣ$			
	m	n	$ň$		
		l			
tap		r			
	w		y		

The labialized velars k^w, g^w, q^w, and h^w could be considered sequences of the consonant and w; however, their status as phonemes is suggested by the fact that the Amharic writing system provides unique characters for these in their occurrence before vowels other than a (before a there is a regular orthographic formation for labialization of all consonants).

The voiceless labial stops p and $ṗ$ are rare, appearing only in loanwords, though some borrowings with $ṗ$ are long established in the language, such as *ityoṗṗya* 'Ethiopia' (< Greek). The voiced labiodental fricative [v] occurs in some recent borrowings such as *volibol* 'volleyball'. The glottal stop, glottal fricative, and la-

bialized velars do not occur at the end of syllables (or, thus, words), nor the alveo-palatal nasal at the beginning of words. Otherwise, words begin and end with any of the consonants. In rural Amharic *ṣ* may be replaced by *ṭ* and *ž* and *ǰ* may be free variants. The glottal stop could be considered an allophonic effect of syllable-initial vowels, as in *[ʾ]ityoṗṗya* 'Ethiopia', *sä[ʾ]at* 'hour, clock/watch'.

As in Amharic, *p* and *ṗ* are lacking in Argobba except in borrowed words, and *ṣ* has been replaced by *ṭ*. Word-final *t* > *d*, usually, as in Argobba *bed* 'house' (Amharic *bet*), and *h* has survived where generally it has been lost in Amharic as in Argobba *hand* 'one' (Amharic *and*).

Consonant Allophones

The voiceless stops are slightly aspirated except when unreleased, and are re-leased except before other stops and nasals within a phrase. The nongeminate voiced labial and velar stops *b* and *g* have fricative variants [β] and [ɣ] between vowels within words, e.g. *le[β]a* 'thief', *wa[ɣ]a* 'price'. For most speakers *qʷä* > *qo* and *qʷə* > *qu*, with resulting variants such as *qʷässälä/qossälä* 'he was wound-ed' and *qʷəṭər/quṭər* 'number', but for others the velar and labial stops are labial-ized before round vowels, e.g. *b[ʷ]ota* 'place', *q[ʷ]um* 'stop/stand!'. The glides *w*, *y* are extremely lax between vowels. In the northern dialects, except that of Gond-ar, there is palatal glide insertion after obstruents before the front vowels *i* and *e*, which may in this case be centralized: e.g. *bet* > [bʸet] 'house' and *hid* > [hʸɨd] 'go (sg. 2m.)!'. In Menz, the velar stops *k* and *q* are palatalized to *č* and *č̣*, respective-ly, before *i* and *e*.

Long Consonants

All the consonants except *h* may occur long (geminated) between vowels and oc-casionally word finally, with the approximate duration of a two-consonant se-quence. Below, the long consonants are written as sequences of like consonants, except when lexically contrastive length must be distinguished from morphologi-cally significant doubling, so e.g. *t:*, *s:*, are written. The retroflex phoneme *r*, singly a tap, is a trill when long.

Morphophonemic Palatalizations

When stem final and followed by the sg. 2f. suffix -*i*, the instrumental and agen-tive suffix -*i* and the conjunctive sg. 1 suffix -*e*, the alveolar consonants except *r* are replaced by the corresponding alveopalatals: *t* > *č*, *d* > *ǰ*, *ṭ* > *č̣*, *s* > *š*, *z* > *ž* (and optionally *ž* > *ǰ*), *ṣ* > *ṭ*, *n* > *ñ*, and, except in the dialect of Menz, *l* > *y*. The suffix -*i* may be absent with these palatalizations. Note that these palatalizations do not occur before *i* and *e* otherwise (e.g. *set* 'woman'), not even in nouns suffixed by -*e* of the sg. 1 possessive (e.g. *bet-e* 'my house').

The same palatalizations occur with the cognate Argobba suffixes.

Vowels

The seven vowel phonemes of Amharic are shown below. The vowel phonemes

have the phonetic values generally suggested by their symbolization, except as follows: *ə* is a high central vowel, IPA *ɨ*, and *ä* is a mid central vowel, IPA *ʌ*, according to some tending to low front [ɛ], especially after the alveopalatal consonants. The mid-front vowel *e* is lowered to [ɛ], after *h*, as in *h*[ɛ]*dä* 'he went'. Words begin and end in any of the vowels except that *ə* does not occur final in a phrase except with the question suffix *-nə* (see p. 481), nor *ä* word initially except in the interjection *ärä* 'really!'

i	ə	u
e	ä	o
	a	

Argobba has marginally, in addition to the seven vowel phonemes of Amharic, *a:* (long *a*) in Arabic loanwords. Leslau mentions round allophones of *ä* and *ə*, and long allophones of *i* and *o*. Argobba words begin but do not end in *ä*, having final *a* where Amharic cognates have *ä*.

Vowel Elision
Vowel sequences involving *ə* and *ä* are generally absent owing to the elision of these two by the other vowels; furthermore, *ə* is elided by *ä*: *bä-ərgəṭ > bärgəṭ* 'truly (lit. 'in truth')', *bä-anči > banči* 'by you (sg. 2f.)'. A sequence of like vowels is reduced to one: *asra-and > asrand* 'eleven', *yəbäla-al > yəbälal* 'he eats'.

Vowel Epenthesis
The high central vowel *ə* is epenthesized when disallowed consonant sequences arise in affixation, e.g. *y-nägr-h > yənägrəh* 'he tells you (sg. m.)'.

Vocalization
The sg. 3m. and pl. 3 verb-subject prefix *y-* is replaced by *i* between consonants: *s-y-hed > sihed* 'when he goes', *ənd-y-mäṭa > əndimäṭa* 'that he come(s)'.

Devocalization
The high vowels *i* and *u* (typically the suffixes *-i* and *-u* of the sg. 2f. and pl. 3 of verbs, respectively) are replaced by glides *y* and *w*, respectively, when followed by *a*: *tənägri-alləš > tənägryalləš* 'you (sg. f.) tell', *näggär-u-at > näggärwat* 'they told her'.

Stress
Stress is not prominent in Amharic, though main stress of words is typically audible on stems rather than affixes (though the plural suffix may be stressed), but more so on closed rather than open syllables. There is, however, little research on this topic.

Morphology

Pronouns
In Tables 20.1–20.3 (p. 462) are presented the independent pronouns and two sets of suffix pronouns. The Amharic object suffix pronouns are shown with the past tense verb *näggärä* 'he told', and the Amharic possessive suffix pronouns with the noun *bet* 'house'. As in Leslau 1959, the Argobba object suffix pronouns are shown with the past tense verb *gäddäla* 'he killed', and the Argobba possessive suffix pronouns with the noun *bed* 'house'.

Independent Pronouns
Amharic independent pronouns distinguish sg. 2pol., sg. 3pol. and pl. 3 forms, distinctions merged in verb paradigms. Sg. 2pol. *antu* is common only in Wello and Gondar. The four pronouns with *əss-* each have alternate forms with *ərs-*, e.g. *ərs-u* 'he', *ərs-wo* 'you sg. pol.', which reflect the origin of these as reflexive–emphatics based on possessive forms (see p. 463) of **ərs* 'head' or **kərs* 'belly'. The pl. 2/3 forms reflect a plural morpheme *ənnä-* (as in *ənnä-täsfaye* 'those associated with Tesfaye') prefixed to the sg. 2/3m. forms, respectively. Since verbs agree with their subjects, the independent pronouns are redundant as subjects unless contrastive, in e.g. *əne näňň* 'it's me', *antə-m athedəm* 'you (sg. 2m.) won't go either', and they appear rarely as subjects of verbs, as, for example, when contrastive.

Pronominal objects are ordinarily expressed as verb suffixes, so again the independent pronouns appear only rarely as objects, as when contrastive. When they do so appear, the independent pronouns like definite nouns are suffixed by the definite object suffix *-n* (see p. 465): *əne-n, antä-n*, etc., e.g. *əsswa-n näggär-ku(-at)* 'I told her'.

As possessives, the independent pronouns have the possessive prefix *yä-*, e.g. *yä-ňňa* 'our' (see p. 464). More commonly, pronoun possession is expressed by the possessive suffix pronouns (p. 463).

In Argobba the independent pronouns with the basis *kəss-* perhaps derive from reflexive–emphatic pronouns consisting of the noun *kärs* 'belly' with the possessive suffixes. Argobba lacks the 2nd and 3rd person polite forms.

Object Suffixed Pronouns
Instead of sg. 3m. *-w* (*näggärä-w* 'he told him'), the form *-t* appears after round vowels, e.g. *näggär-u-t* 'they told him', *nägr-o-t* 'he, telling him'. After consonants other than alveopalatals the object suffixes of the sg. 1, sg. 3m. and pl. 1 have *ä*: *-äňň, -äw,* and *-än*, respectively, e.g. *näggär-k-äňň* 'you (sg. m.) told me', *wəsäd-äw* '(you (sg. m.)) take him!' The initial part *-ačč* of the pl. 2 and pl. 3 suffixes probably reflects a plural suffix cognate with the noun plural suffix *-očč*.

There are prepositions *bä-* 'with, (up)on, against' and *lä-* 'for, in the interest of' which may be suffixed to verbs in the forms *-bb-, -ll-*, respectively, in which case they take the object suffix pronouns of the above set with the exception of sg. 3m.

Table 20.1   Independent pronouns

		Amharic	Argobba
Sg.	1	əne	äy
	2m.	antä	ank
	f.	anči	anč
	pol.	əsswo/antu	
	3m.	əssu	kəssu
	f.	əsswa	kəssa
	pol.	əssaččäw	
Pl.	1	əňňa	ənna
	2	ənnantä	ənnakum
	3	ənnässu	kəssäm

Table 20.2   Object suffix pronouns

		Amharic	Argobba
Sg.	1	näggärä-ňň	gäddäl-äň
	2m.	näggärä-h	gäddäl-ah
	f.	näggärä-š	gäddäl-ih
	pol.	näggärä-wo(t)	
	3m.	näggärä-w	gäddäl-e
	f.	näggär-at	gäddäl-ya
	pol.	(= pl. 3)	
Pl.	1	näggärä-n	gäddäl-änna
	2	näggär-aččəhu	gäddäl-əhu(m)
	3	näggär-aččäw	gäddäl-em

Table 20.3   Possessive suffix pronouns

		Amharic	Argobba
Sg.	1	bet-e	bed-ya/bed-e
	2m.	bet-əh	bed-ah
	f.	bet-əš	bed-ih
	pol.	bet-wo	
	3m.	bet-u	bed-u
	f.	bet-wa	bed-wa
	pol.	(= pl. 3)	
Pl.	1	bet-aččən	bed-enno
	2	bet-aččəhu	bed-əhu(m)
	3	bet-aččäw	bed-ämmu

-ät instead of -äw: *därräqä-bb-äññ* 'it dried up on me' (i.e., 'unfortunately for me'), *əndifärdə-ll-ät* 'that he judge in his favor'. When not suffixed to verbs, these prepositions accept the independent pronouns as their objects, e.g. *bäne* (< *bä-əne*) 'by/on me', *banči* (< *bä-anči*) 'by/on you (sg. f.)'.

Possessive Suffixed Pronouns

Instead of *-u*, the sg. 3m. form *-w* appears after round vowels, e.g. *bäqlo-w* 'his mule'. The vowel of the sg. 2m. and sg. 2f. suffixes is not epenthetic; *bet + š*, for example, would not require epenthesis. The initial part *-ačč* of the pl. 1/2/3 suffixes again probably reflects a cognate of the noun plural suffix *-očč*. The possessive suffix pronouns are mutually exclusive with the suffix of the definite article (see p. 464).

Reflexive–Emphatic Pronouns

These are expressed as possessives of the noun *ras* 'head', e.g. *ras-e* 'myself', *ras-ačč*ən 'ourselves', as in:

  ras-u-n godda-w
  self-his-Def. injured(he)-it
  'He injured himself.'

Argobba reflexive pronouns are based on *näbs* 'soul' (*näbs-e* 'myself') or *dəmah* 'head'.

Interrogative Pronouns

These include *man* 'who' (*man-ən* 'whom'), *mən* 'what' (*məndər* in *məndər näw* (> *məndənnäw*) 'what is it?'), *mäče* 'when', and *yät* /*yet* 'where', which take the suffix *-m* (*-əm* with epenthesis) to provide negative indefinite pronouns, e.g. *man-əm almäṭṭam* 'nobody came', *yät-əm alhedəm* 'I won't go anywhere'. Other question words are *yätəññaw* 'which', *sənt* 'how much', *lämən* 'why' (lit. 'for what'), *əndä-mən* 'how' (*əndä* 'like'), and *əndet* 'how' (< *əndä-yät* 'like where').

Argobba interrogative pronouns include *ma(n)* 'who?', *mən* 'what?', *yedəññaw* (m.), *yeyeññäwa* (f.) 'which?', *yed* and *če* 'where?', and *mäčče* 'when?' The suffix *-m* (*-əm* with epenthesis) forms negative indefinite pronouns, e.g. *mən-əm* 'anything'.

Nouns

Gender

Gender is mostly natural, but a few inanimate nouns are typically treated as grammatically feminine, including the sun and moon, names of countries, automobiles, and small animals such as mice, the latter reflecting a diminutive usage of feminine gender. Many feminine human nouns end in *t*, an archaic non-productive feminine ending, e.g. *ənnat* 'mother', *əhət* 'sister', *nəgəst* 'queen' (cf. *nəgus*

'king'), and there is a rare feminine suffix -*it*, as in *arogit* 'old woman' (*aroge* 'old'), *andit* 'a little one (f.)' (*and* 'one') (seen in the feminine definite article *it-u*, see Definiteness, below). The gender of a noun is apparent in its choice of pronoun, agreement with the verb, determiners, and the definite article suffix.

Argobba (as noted, p. 459), generally has *d* for Amharic word-final *t*, so thus in the archaic feminine suffix of e.g. *əhəd* 'sister'.

Definiteness
In masculine and common nouns, discourse-referential definiteness (= 'the above-mentioned') is expressed by the suffix -*u*/-*w* (-*w* after vowels). In feminine nouns, this is expressed by the suffixes -*wa* or -*it-u*: *wəša-w* 'the dog (m.)' (ambiguously 'his dog'), *dəmmät-wa* 'the cat (f.)' (ambiguously 'her cat') or *dəm-mät-itu* 'the cat (f.)'. Definiteness is inherent in the possessive suffixes. The nouns *säw* 'man' and *set* 'woman' have special definite forms *säw-əyye-w* 'the man', *set-əyye-w* 'the woman' with a suffix -*əyye* perhaps indicating specificity (see below).

In Argobba the suffixes -*u*/-*w* (m.) and -*wa* (f.). indicate definiteness: *bed-u* 'the house (m.)', *aškär-wa* 'the (maid)servant (f.)'.

Indefinite Article
The numeral *and* 'one' functions as an indefinite specific article, especially on the introduction of human topics, as in *and säw(-əyye) mäṭṭa* 'a (certain) man came', where discourse continues about the man. Repetition of *and* expresses plural indefinite but inspecific 'some': *andand säw mäṭṭa* 'some (a few) people came'.

Argobba *hand* '1' does not so function (Leslau 1959: 254, 256).

Plurality
The regular suffix of plurality is -*(w/y)očč*: *bet-očč* 'houses', *zämäd-očč* 'relatives'. The *y* is transitional after *i/e*, but *w* may follow any vowel: *gäbäre-yočč*/*gäbäre-wočč*. Alternatively, the vowel of the plural suffix may elide a preceding vowel: *mäkina-očč* > *mäkinočč* 'cars', *bäqlo-očč* > *bäqločč* 'mules'. There are some irregular plurals in *at* and *an*, including *qal-at* 'words', *qəddus-an* 'saints' (probably < Ge'ez). With plural quantifiers, the plural suffix may be absent: *bəzu säw* 'many people', *hulät ləǰ* 'two children'. Adjectives may be pluralized (see p. 466) and, archaically, the relativized verb (see p. 482).

Argobba has the noun-plural suffix -*(a)č*, the vowel being absent following vowels: *bed-ač* 'houses', *bäqlo-č* 'mules'.

Genitive
The genitive of nouns is expressed by the prefix *yä*-: *yä-hanna ənnat* 'Hanna's mother', *yä-kenya ambasador* 'the Kenyan ambassador', *yä-səlk quṭər* 'telephone number'. This prefix is absent if another prefix precedes, as in *lä-hanna ənnat* 'for Hanna's mother'. The same prefix marks the verb of the adjective clause (see p. 482).

In Argobba the genitive prefix is *yä: yä-wädaǰ-əya* 'of my friend', which also is absent if another prefix is present: *bä-wädaǰ-əya färäs* 'on my friend's horse'.

Object Suffix

Definite objects of verbs, and sometimes indefinites in older writing, are suffixed by *-n: bet-u-n wäddädä* 'he liked the house', *abbat-e-n näggär-ku* 'I told my father'. A topicalized (raised as topic) definite accusative is marked as a "resumptive" object pronoun on the verb (cf. p. 480):

> *bet-u-n wäddäd-ä-w*
> house-the-Def. liked-he-it
> 'He liked the house.'

Argobba also suffixes *-n* to definite objects: *bäru-n atəkfäte* 'don't open the gate'.

Topicalizer

A suffix *-m* (*-əm* with epenthesis) marks nouns as topical, in the sense raised anew, returned to as topic, or contrastive with others; for example, in *ṭwat yohannəs-əm däwwälä-ňň* 'in the morning Yohannis called me', Yohannis is raised (anew or not) as a topic for further discussion, and in *yohannəs-əm yə-mäṭal* 'as for Yohannis, he will come/Yohannis will come too', Yohannis contrasts with others. In questions, an equivalent morpheme is *-ss: antä-ss?* 'what about you (sg. m.)?'.

Derived Nouns

The instrument or location of a verb is formed on the infinitive (see p. 475) with the suffix *-iya: mäṭräg-iya* 'broom' (*t'ärrägä* 'he swept'), *awroplan maräf-iya* 'airport, runway' (*arräfä* 'he rested, it landed (of airplane)'). The agent of a verb is expressed by a special stem with *a* after the second consonant of triconsonantal and quadriconsonantal verbs, and the suffix *-i: sämi* 'hearer', *nägari* 'teller', *fällagi* 'seeker', *tärgʷami* 'translator'. In the agent of biconsonantal roots reconstructable as triconsonantals with medial *y* or *w*, the glide appears: *hiyǰ(i)* 'goer' (*hedä* 'he went'), *qäwami* 'stander' (*qomä* 'he stood').

A few other noun-deriving suffixes may be mentioned. An agent of a noun is formed with the suffix *-äňňa: qäld-äňňa* 'joker' (*qäld* 'joke'), *färäs-äňňa* 'horseman' (*färäs* 'horse'); this suffix also forms ordinal from cardinal numerals (see p. 467). Expressing characteristic association with the noun to which it is suffixed – nationality when suffixed to a country name – is *-awi: ingliz-awi* 'English(man)', *amät-awi* 'annually' (*amät* 'year'). An abstract noun of quality is derived with the suffix *-nnät: set-ənnät* 'womanhood' (*set* 'woman'), *dəha-nnät* 'poverty' (*dəha* 'poor').

In Argobba the instrument of a verb is also formed on the infinitive by the suffix *-iya*, as in *mäṭräg-iya* 'broom'. Other suffixes as in Amharic are *-nnät* (*läǰ-nnät*

'childhood') and *-äñña* (*bəlät-äñña* 'cleverness'), the latter also forming ordinal from cardinal numerals (see p. 467).

Adjectives

There are words which typically function as adjectives, that is, attributive to nouns, such as *təlləq* 'big', *aroge* 'old (of non-human things)'. However, these have some of the morphological characteristics of nouns, for example functioning non-attributively and taking the definite article and plural suffixes: *təlləq-u* 'the big one', *təlləq-očč* 'big ones', *qonjo-wa* 'the pretty one', *qonjo-wočč* 'pretty ones'. The definite suffix attaches to the adjective, but a possessive suffix attaches to the noun: *təlləq-u bet* 'the big house' vs. *təlləq bet-u* 'his big house'. The definite object suffix *-n* appears also on the adjective: *qonjo-wa-n mäkina šäṭä* 'he sold the pretty car.' The plural suffix attaches to the noun: *qonjo mäkina-wočč* 'the pretty cars'. Unlike other noun modifiers, *hullu* 'all' may follow its noun: *säw hullu* 'all the people'.

Some adjectives form a plural implicating 'variousness', by reduplicating their middle consonant: *təlälləq ləjočč* 'various big children' (*təlləq* 'big'), *räjäjjəm wattaddäročč* 'various tall soldiers' (*räjjəm* 'tall'). These may still be pluralized when predicative: *təlälləqočč naččäw* 'they are big (ones)'.

The suffix *-am* derives from a noun an adjective meaning 'having particularly or excessively a quality associated with the noun': *hod-am* 'greedy, gluttonous' (*hod* 'stomach'), *mälk-am* 'attractive, nice' (*mälk* 'appearance'). The suffix *-amma* derives an adjective of similar but somewhat intensified meaning: *fərey-amma* 'fruitful' (*fəre* 'fruit'), *ṭen-amma* 'healthy' (*ṭena* 'health').

The predicative comparative of adjectives is expressed by a prepositional phrase with *kä-* or *tä-* 'from', e.g. *kä-yonas əne dəha näññ* 'I am poorer than Yonas' (lit. 'from Yonas I am poor'). A predicative superlative is a comparative in relation to 'all': *kä-hullu əne dəha näññ* 'I am poorer than all' (= 'poorest'). (Adjectives, however, often have cognate verbs with which comparisons may also be expressed, e.g. *kä-ne əssu räjjəm näw* or *kä-ne əssu yəräzzəmal* 'he is taller than me'.) Comparisons are often reinforced by one of the fixed form (lacking subject agreement) simple nonpast verbs *yələq* (*läqqa* 'he/it surpassed'), or *yəbälṭ* (*bälläṭä* 'he/it exceeded'), as in:

> *Haylu k-antä yəbälṭ bäṭam qäččən nä-w*
> Haylu from-you (sg. 2m.) more very thin is-he
> 'Haylu is much thinner than you.'

Concerning comparison clauses, see p. 484.

Argobba has adjectives, including *hačir* 'short' (Amharic *ačər*), *rəhuq* 'far' (Amharic *ruq*). As in Amharic, the quantifier expressing 'all', *diyyu(m)*, may follow its noun: *mäsob-ač diyyu(m)* 'all baskets'.

Demonstratives

		Amharic	Argobba
Near	Sg. m.	*yǝh*	*hud*
	f.	*yǝ(hǝ)čč(i)*	*huy*
Far	Sg. m.	*ya*	*[o:]d*
	f.	*yačč(i)*	*[o:]y*
Near	Pl.	*ǝnnäzzih*	*h[u:]lläm*
Far	Pl.	*ǝnnäzzya*	*(w)[o:]lläm*

The demonstratives distinguish singular and plural, and near (proximal) and far (distal). The Amharic plural forms reflect the plural prefix *ǝnnä-* with locatives *ǝzzih* 'here' and *ǝzzya* 'there'. The demonstratives function attributively (*yǝh bet* 'this house') and pronominally (*ya näw* 'that's it').

Argobba plural forms appear to be cognate with Amharic *hullu* 'all', and the final *-m* of these apparently cognate with Amharic *-m* (see p. 465). The long vowels of the plurals are as given by Leslau. 'Here' and 'there' are *bä-hud* (lit. 'at-here') and *b-o:d* ('at-there'). Apparent cognates of Amharic *yǝh* 'this' and *ya* 'that' are *yih/yah* 'here, take'.

Numerals
The cardinal numerals are shown below:

	Amharic	Argobba		Amharic	Argobba
1	*and*	*and*	12	*asra-hulät*	*assǝr ket*
2	*hulät*	*ket*	20	*haya*	*kiya*
3	*sost*	*sost*	30	*sälasa*	*sasa*
4	*arat*	*arbit*	40	*arba*	*harba*
5	*ammǝst*	*ammǝst*	50	*hamsa*	*hamsa*
6	*sǝddǝst*	*sǝddǝst*	60	*sǝlsa*	*sǝlsa*
7	*säbat*	*saʔint*	70	*säba*	*säba*
8	*sǝmmǝnt*	*sǝmmǝnt*	80	*sämanya*	*sämanya*
9	*zäṭäň*	*žähṭʷäň*	90	*zäṭäna*	*zäṭäna*
10	*assǝr*	*assǝr*	100	*mäto*	*mäto*
11	*asr-and*	*assǝr-hand*	1000	*ši*	*ši*

In Amharic, calendar years are expressed e.g. *ši zäṭäň mäto sǝlsa sost* (thousand nine hundred sixty three) '1963'. Ordinal numerals are formed with the suffix *-äňňa* (which also forms noun agents: see p. 465): and *-äňňa* 'first', *assǝr-äňňa* 'tenth'. There is an apparent dissimilation in 'ninth': *zäṭäň-äňňa > zäṭänäňňa*. In royal titles 'first' is expressed by *qädam-awi* (*qdm* 'precede') and 'second' by *dagm-awi* (*dgm* 'repeat'), e.g. *qädamawi haylä sǝllasi* 'Haile Sellasie I', *dagmawi mǝnilǝk* 'Menelik II'.

Argobba cardinal numerals from 50 are identical to those of Amharic, which probably influenced them, or from which they are borrowed. Argobba ordinal numerals as in Amharic have the suffix *-äñña*, e.g. *hand-äñña* 'first', *ket-äñña* 'second'.

Verbs
Verbs consist of a stem and affixes.

Stems
Stems consist of a number of (root) consonants (typically three), a pattern of vowels, and, in the conjunctive and infinitive, for some verbs the stem-forming suffix *t* which replaces an otherwise lost stem-final consonant. In Table 20.4 (below) are presented the five stems – past, nonpast, imperative/jussive, conjunctive, and infinitive – of representative Amharic verbs of the twelve most common types. Consonant length (gemination) is shown by ":".

Table 20.4   Amharic verb stems

	Past	Nonpast	Imp.	Conjunct.	Inf.	Gloss
A	käf:äl-	-käfl	kəfäl	käfl-	mä-kfäl	'pay'
B	fäl:äg-	-fäl:əg	fäl:əg	fäl:əg-	mä-fäl:äg	'want'
A	qär:ä	-qär	qər	qär-t-	mä-qrä-t	'remain'
B	läy:ä	-läy:	läy:	läy:-ət-	mä-läy:ä-t	'separate'
A	bäl:a	-bäla	bəla	bäl-t-	mä-bla-t	'eat'
B	läk:a	-läk:a	läk:a	läk:-ət-	mä-läk:a-t	'measure'
	qom-	-qom	qum	qum-	mä-qom	'stand'
	hed-	-hed	hid	hid-	mä-hed	'go'
	sam-	-səm	sam	səm-	mä-sam	'kiss'
	bar:äk	-bar:k	barək	bark-	mä-baräk	'bless'
	mäsäk:är	-mäsäk:ər	mäskər	mäskər-	mä-mäskär	'testify'
	fänäd:a	-fänäd:a	fända	fänd-ət-	mä-fända-t	'burst'

The first three pairs of stems in Table 20.4 illustrate verb types which contrast by length of the second consonant, usually termed types A (short consonant) and B (long consonant). None of the twelve types are differentiated by meaning, but at somewhat greater than chance probability A-type verbs are intransitive and B-types transitive. The type of *bar:äk* (tenth row), with *a* after the first consonant, is often termed "C-type." The type of *käf:äl* (first row) is the most numerous.

The typical dictionary entry or citation form of Amharic verbs is the past stem with the sg. 3m. suffix *-ä*, even though, as the table shows, types A and B are nondistinct in this stem. In Shoan or Addis Ababa Amharic, the conjunctive stem of biconsonantal verbs with a back round vowel characteristic (*qum* in the table) is *qom*, and of those with a front vowel characteristic (*hid* in the table) *hed*.

Biconsonantal verbs (rows 3–9) can typically on comparative evidence be seen to derive from verbs of three consonants, one of which was lost with reflex as a

vowel characteristic in some environments. Similarly, the type of *fänäd:a* represents a four-consonant root which lost the fourth. Verbs which lost the last consonant are those whose conjunctive and infinitive stems are suffixed by *t*. Biconsonantals with a medial vowel characteristic, the types of *qom*, *hed*, and *sam*, lost the medial consonant with the vowel as reflex.

Stems with Initial *a*

Some stems have initial *a*, the historical reflex of a lost pharyngeal or laryngeal stem-initial consonant. In Table 20.5 are compared the stems of *a*-initial verbs corresponding to verbs of rows 1–4 and 11 of Table 20.4.

Table 20.5   Amharic stems of verbs with initial *a*

Past	Nonpast	Imp.	Conjunct.	Inf.	Gloss
al:äf	alf	əläf	alf	m-aläf	'pass'
ad:än	ad:ən	ad:ən	ad:ən	m-ad:än	'hunt'
ay:	ay	əy	ay-t	m-ayä-t	'see'
am:a	ama	əma	am-t	m-ama-t	'slander'
anäk:äs	anäk:əs	ankəs	ankəs	m-ankäs	'limp'

Doubled Verbs

So-called "doubled verbs" have repetition of a consonant. In Table 20.6 are shown stems of doubled verbs corresponding to the types of rows 1, 2, 3, 6 and 11 of Table 20.4. The doubled verb characteristic is shown in the table as the repetition of a consonant, whereas long consonants which characterize conjugations (columns) are shown with ":".

Table 20.6   Amharic stems of doubled verbs

Past	Nonpast	Imp.	Conjunct.	Inf.	Gloss
bär:är	bärr	bərär	bärr	mä-brär	'fly'
däl:äl	däl:əl	däl:əl	däl:əl	mä-däl:äl	'cajole'
šäš:ä	šäš	šəš	šäš-t	mä-ššä-t	'flee'
ṭäṭ:a	ṭäṭ:a	ṭäṭ:a	ṭäṭ:-ət	mä-ṭäṭ:a-t	'drink'
dänäg:äg	dänäg:əg	dängəg	dängəg	mä-dängäg	'decree'

In Table 20.7 are presented the five stems of representative Argobba verbs of ten types corresponding to the Amharic types of Table 20.4 less B-types *läy:ä* and *läk:a*. Medial *h* is not entirely lost in Argobba as in Amharic, and survives, for example, in the type of *sähaq*. Argobba B-type verbs are characterized by the vowel *e* after the first consonant in past and nonpast stems, as well as by consonant length. There is a gap in the data for the conjunctive stem of the *gäb:a* type, presumably *gäb-d*. The appearance of *t* rather than expected *d* in the infinitive of this

Table 20.7   Argobba verb stems

Past	Nonpast	Imp.	Conjunct.	Inf.	Gloss
sädäb	sädb	sədäb	sädbə-d	mä-sdäb	'insult'
bed:äl	bed:əl	bäd:əl	bäd:əl-d	mä-bäd:äl	'wrong'
mäš:	mäš	məši	mäš-d	mä-mši-d	'be evening'
gäb:a	gäb	gəbi		mä-gbi-t	'enter'
qom	qom	qum	qom-d	mä-qom	'stand (v.i.)'
hed	hed	hid	hed-d	mä-hed	'go'
sahaq	si:q/sähq	saq/sähaq	siq-d/sähaq-d	mä-saq	'laugh'
mar:äk	mar:ək	mar:ək	mar:ək-d	mä-mar:äk	'capture'
dänäg:äṭ	dänägṭ	dängəṭ	dängəṭ-d	mä-dängäṭ	'startle (v.i.)'
bärät:a	bärät:	bärt	bärtə-d	mä-bärti-d	'be strong'

type (also in that of the verb 'say', see p. 480), could reflect sporadic Amharic influence.

The stems of a representative Argobba non-geminating A-type verb with initial *a* are as follows: past *arräf* (= *ar:äf*), nonpast *arf*, imperative *əräf*, and conjunctive *arfə-d*. The infinitive of this type, theoretically *aräf*, is missing in the data. Argobba cognates of Amharic stems with initial *a* often have initial *h*.

The Four Basic Verb Conjugations
The four basic verb conjugations past, nonpast, imperative (jussive), and conjunctive are characterized by the stems of Tables 20.4–20.7 plus subject prefixes and/or suffixes.

Past
The subject suffixes of the past conjugation are seen in Table 20.8; the gloss of the Amharic verb is 'tell' and of the Argobba verb 'insult'.

The sg. 1 and sg. 2m. suffixes *-ku/-k* have alternates *-hu/-h*, respectively, after vowel-final stems: *qärrä-hu* 'I remain', *bälla-hu* 'I ate'. Sg. 1 *-hu* may also appear after stem-final consonants: *käffäl-hu* 'I paid'. The vowel of the Amharic sg. 1 suf-

Table 20.8   Past

		Amharic	Argobba
sg.	1	näggär-ku	säddäb-ku
	2m.	näggär-k	säddäb-k
	f.	näggär-š	säddäb-č(-i)
	pol.	(= pl. 3)	
	3m.	näggär-ä	säddäb-a
	f.	näggär-äčč	säddäb-ädᵗ
	pol.	(= pl. 3)	
pl.	1	näggär-(ə)n	säddäb-ən
	2	näggär-aččəhu	säddäb-kum
	3	näggär-u	säddäb-u

fix *-ku/-hu* is voiceless when word final (voiced in e.g. *näggär-ku-t* 'I told him'). The pl. 2 suffix *-aččəhu* probably reflects *-ačč* 'plural' plus *-hu* cognate with *-ku* of the Argobba suffix. The suffix *-u* of pl. 3 suppletes the stem-final vowel *a: bäll-u* 'they ate', but, otherwise, the elisions mentioned on p. 460 apply when suffix vowels follow stem vowels: *qärrä-ä > qärrä* 'he remained', *läkka-ä > läkka* 'he measured'.

The main verb negative past is formed by prefixing *al-* and suffixing *-m: al-näggär-ku-m* 'I didn't tell', *al-näggär-nə-m* 'we didn't tell'. Subordinate verbs lack the suffix: *ənd-al-mäṭṭa* 'that he didn't come'. Object suffix pronouns follow the subject suffix and precede negative *-m: näggär-äčč-əh* 'she told you (sg. m.)', *al-näggär-ku-t-əm* 'I didn't tell him'.

In Argobba, the sg. 3m. form has final *a* vs. *ä* of Amharic. The raised *t* of the sg. 3f. ending is a voiceless release, as reported by Leslau. The negative past has the prefix *al-* and the suffixes *-m* in the pl. 3 form (*al-säddäbu-m*), *-aw* in the pl. 1 and pl. 2 forms (*al-säddäbn-aw* and *al-säddäbkum-aw*, respectively, and *-u/-w* otherwise (*-w* after vowels, e.g. *al-säddäb-k-u* 'you (sg. 2m.) didn't insult', *al-säddäba-w* 'he didn't insult').

Nonpast

The subject prefixes and suffixes of the nonpast are shown in Table 20.9, where again the gloss of the Amharic verb is 'tell' and of the Argobba verb 'insult'. The table shows forms which as affirmative main verbs combine with an auxiliary, for which see Table 20.10.

Nonpast verbs in subordinate clauses typically have an adverbial clause prefix such as *s-* 'when' (see p. 484), with which there is epenthesis before the subject prefix *t*, which may be geminated (*s-t-nägr-i > sət(tə)nägri* 'when you (sg. f.) tell'), and vocalization of the subject prefix *y* as *i* (*s-y-hed > sihed* 'when he goes'). When followed by the sg. 2f. suffix, stem-final alveolar consonants except *r* are replaced by their alveopalatal alternates (see p. 459) in which case the vowel *i* of this suffix may be absent, as in *tə-käfč(-i)* 'you (sg. f.) open' *< tə-käft-i.*

Table 20.9   Nonpast

		Amharic	Argobba
Sg.	1	ə-nägr	ə-sädb
	2m.	tə-nägr	tə-sädb
	f.	tə-nägr-i	tə-sädb-i
	pol.	(= pl. 3)	
	3m.	yə-nägr	yə-sädb
	f.	tə-nägr	tə-sädb
	pol.	(= pl. 3)	
Pl.	1	ən(nə)-nägr	əl-sädb-ən
	2	tə-nägr-u	tə-sädb-u
	3	yə-nägr-u	yə-sädb-u

The negative of the nonpast is formed by prefixing *a-* and, in main verbs, suffixing *-m*: *a-y-nägr-əm* 'he won't tell', *b-a-y-nägər* 'if he doesn't tell'. The sg. 1 prefix of the negative nonpast is *l-* instead of *ə-* of the affirmative: *a-l-hed-əm* 'I won't go', and the subject prefix *t-* is usually lengthened after the negative prefix: *a-ttə-nägər* 'she doesn't tell'.

As an affirmative main verb and except when part of a compound verb (see p. 477), the nonpast is suffixed by an auxiliary verb historically derived from forms of the verb of presence (p. 476). The subject prefixes and suffixes of this conjugation are shown in Table 20.10, where again the gloss of verbs of the Amharic examples is 'tell' and of the Argobba examples, 'insult'. The final vowel of the sg. 1 auxiliary *-allähu* is voiceless when word final. The pl. 2/3 suffix *-u* of the simple nonpast (Table 20.9) is absent with the suffixation of the plural auxiliary verb unless an object suffix cooccurs with a pl. 3 subject as in *yə-nägr-u-t-al* 'they tell him'.

Table 20.10   Compound nonpast

		Amharic	Argobba
Sg.	1	ə-nägr-allähu	ə-sädb-älluh
	2m.	tə-nägr-alläh	tə-sädb-ällah
	f.	tə-nägr-i-alläš	tə-sädb-ällih
	pol.	(= pl. 3)	
	3m.	yə-nägr-al	yə-sädb-äl
	f.	tə-nägr-alläčč	tə-sädb-ällädᵗ
	pol.	(= pl. 3)	
Pl.	1	ən(nə)-nägr-allän	əl-sädb-ällən/ə-sädb-ənänən
	2	tə-nägr-allaččəhu	tə-sädb-älləhum
	3	yə-nägr-allu	yə-sädb-ällu

Object suffix pronouns follow the stem and precede the suffixed auxiliary: *yə-nägr-aččäw-al* 'he tells them/him (pol.)', *ə-nägr-əh-allähu* 'I tell you (sg. m.)'.

Argobba nonpasts have the pl. 1 prefix *əl-*. Argobba negative nonpasts are prefixed by *a-*, but *a-l-*, as in Amharic, in the negative sg. 1 form. Negative singular forms are also suffixed by *-u* (e.g. sg. 3m. *a-y-sädb-u*), negative 2nd and 3rd plural forms by *-m* (e.g. pl. 2 *a-t-sädb-u-m*), and the negative pl. 1 by *-aw* (*a-l-sädb-ən-aw*) (Leslau: 262). The suffixed negatives are presumably, as in Amharic, main-verb forms.

Imperative/jussive
The imperative has only 2nd person forms: sg. m., sg. f., and pl., respectively *nəgär*, *nəgär-i*, *nəgär-u*. Stem-final alveolar consonants of sg. 2f. imperatives have the usual palatalizations (see p. 459, e.g. *wəsäǰ(i)* 'take (sg. f.)! vs. *wəsäd*, sg. m.). The negative imperative is expressed by the 2nd person negative jussives.

The jussive consists of the imperative stem plus prefixes and suffixes, as seen in Table 20.11, in which again the gloss of verbs of the Amharic examples is 'tell'

Table 20.11   Jussive

		Amharic	Argobba
Sg.	1	lə-ngär	lə-sdäb
	2m.	tə-ngär	tə-sdäb
	f.	tə-ngär-i	tə-sdäb-i
	pol.	(= pl. 3)	
	3m.	yə-ngär	yə-sdäb
	f.	tə-ngär	tə-sdäb
	pol.	(= pl. 3)	
Pl.	1	ən(nə)-ngär	lə-sdäb-ən
	2	tə-ngär-u	tə-sdäb-u
	3	yə-ngär-u	yə-sdäb-u

and of the Argobba examples 'insult'. Instead of ə- of the nonpast and as in the negative nonpast, the sg. 1 subject prefix is *l-*.

The jussive expresses 'may (it be so that) V', or 'would that V', e.g. *yə-ngär-əh* 'may (it be so that) he tell you (sg. m.)', although 1st and 3rd person jussives are typically understood in the meaning 'let V', e.g. *yə-hid* 'let him go', *ənnə-hid* 'let us go'. The jussive is not employed in subordinate clauses. Negatives of the jussive, like negative nonpasts, are prefixed with *a-* and, as in the negative nonpast, negatives of the 2nd person jussives may have lengthening of a subject prefix consonant: *a-t(tə)-hid-u* 'don't go! (pl. 2)'.

Imperatives in Argobba are sg. 2m. *sədäb*, sg. 2f. *sədäb-i*, and pl. 2 *sədäb-u*, with the usual palatalizations, as in Amharic, of stem-final alveolars in sg. 2f. forms. The jussive pl. 1 as well as sg. 1 prefix is *l*. Negative jussives are prefixed by *a-* (Leslau gives only 2nd person negative forms), and the subject prefix *t-* of the 2nd person forms is lengthened: *attəsdäbu* 'don't insult!' (pl. 2).

Conjunctive
This conjugation, sometimes termed 'gerundive' or 'converb', consists of a stem and subject suffixes. Its simple form, except in Gojjam Amharic, functions only

Table 20.12   Conjunctive

		Amharic	Argobba
Sg.	1	nägər-:e	sädb-əč
	2m.	nägr-äh	sädb-əd-ah
	f.	nägr-äš	sädb-əd-ih
	pol.	(= pl. 3)	
	3m.	nägr-o	sädb-əd-o
	f.	nägr-a	sädb-əd-a
	pol.	(= pl. 3)	
Pl.	1	nägr-än	sädb-əd-än
	2	nägr-aččəhu	sädb-əd-əhum
	3	nägr-äw	sädb-əd-äm

Table 20.13   Compound conjunctive

		Amharic	Argobba
Sg.	1	nägər-:e-alləhu	sädb-əč-älluh
	2m.	nägr-äh-al	sädb-əd-ähal
	f.	nägr-äš-al	sädb-əd-ihäl
	pol.	(= pl. 3)	
	3m.	nägr-o-al	sädb-əd-ul
	f.	nägr-alläčč	sädb-əd-alläd
	pol.	(= pl. 3)	
Pl.	1	nägr-än-al	sädb-əd-änäl/sädb-əd-änällən
	2	nägr-aččəhu-al	sädb-əd-əhumäl
	3	nägr-äw-al	sädb-əd-ämäl

as a subordinate verb. In Table 20.12 are shown simple conjunctive forms of Amharic 'tell' and of Argobba 'insult'. The conjunctive and the nonpast stems are alike in the verb type of these examples, but not in others, as seen in Table 20.4. In sg. 1 forms the stem-final consonant is lengthened, resulting in epenthesis before the long consonant, e.g. *nägərre-w wäṭṭahu* 'I told him and left', which if alveolar other than *r*, has the usual palatalizations, e.g. *wäsəǰǰe* 'I taking' (*wsd* 'take').

The simple conjunctive may be used to express all but the last of a sequence of states or events, the last, main, verb being of any form: *därs-äw bällu* 'they arrived and ate'/'having arrived, they ate', *käfl-än ənnəhedallän* 'we will pay and go/ 'having paid, we will go'. The subjects of the conjunctive and main verb need not be the same: *särq-o assäru-t* 'he having robbed, they imprisoned him'. Followed by an invariable auxiliary *näbbär*, it expresses an event in the past prior to another, at which latter time the significance of the previous event was still effective or significant (like an English "past perfect"): *əne sə-mäṭa hed-o näbbär* 'when I came, he had gone', *bält-än näbbär* 'we had eaten'. In the Gojjam dialect the simple (main verb) conjunctive has a negative form, like the past with prefix *al-* and suffix *-m*.

The alveolar stop which appears in Amharic conjunctive stems of verbs which lost the final consonant appears with all Argobba conjunctive verbs as *d* (with epenthetic *ə*) instead of *t* of Amharic, but as *č*, *t* palatalized, in the sg. 1 form. The Argobba compound conjunctive has no negative forms.

The conjunctive, like the nonpast, combines with an auxiliary verb suffix based on the verb of presence (see p. 476), and the resulting compound conjunctive expresses a past event with still present effects, like an English "present perfect." Table 20.13 (above) presents forms of the compound conjunctive, again with the Amharic verb 'tell' and the Argobba verb 'insult'.

In neither Amharic nor Argobba does the compound conjunctive have negative forms.

Infinitive

The Amharic infinitive consists of a stem prefixed by *mä-*, e.g. *mä-ngär* 'to tell': *mängär gədd näw* 'to tell is a necessity', *mä-hed yəwäddal* 'he likes going'. Where purpose is expressed, the infinitive is prefixed by *lä-*: *lä-mä-hed yəfälləgal* 'he wants to go'. In *a*-initial stems, *ä* of the prefix is elided: *m-adär* 'to spend the night', *m-ayät* 'to see'. The negative infinitive has the prefix *alä-*: *alä-mä-ngär* 'not to tell'. The infinitive may take the possessive pronoun suffixes (Table 20.3) as subject: *mä-ngär-wa* 'her telling', *mä-hed-ačč̣ən* 'our going'.

In Argobba also the infinitive has the prefix *mä-* and a special stem for some verb types: *mä-sdäb* 'to insult', *mä-näggäd* 'to trade' (B-type verb). Instead of expected *d*, in the infinitive *mä-gbi-t*, *t* appears (see Table 20.7).

Copula

There is a copula, a verb of 'being' conjugated irregularly. The Amharic copula has only nonpast forms, seen in Tables 20.14 and 20.15. Except for the sg. 3f. form *näčč̣*, with a subject suffix as in the past tense, the Amharic copula is analyzable as a stem *nä-* with the object suffix pronouns. Of the two sg. 3f. forms, *näčč̣* is more common nowadays. In the copula, as in the pronouns but not in the verb conjugations, there is a sg. 2pol. form distinct from the pl. 3 form.

Table 20.14   Affirmative copula

		Amharic	Argobba
Sg.	1	näññ	näñ
	2m.	näh	nah
	f.	näš	nih
	pol.	näwot	
	3m.	näw	ne
	f.	näčč̣/nat	näd
	pol.	(= pl. 3)	
Pl.	1	nän	nänna
	2	näčč̣əhu	nəhum
	3	näčč̣äw	nem

The negative nonpast copula is formed on a stem different from that of the affirmative, *dällä* (*dollä* in Gojjam), and has the suffixes of the regular past. In the past, the verb of being or existence is expressed by regular past forms of the stem *näbbär* 'be': *näbbär-ku* 'I was', *näbbär-k* 'you (sg. m.) were' etc., with regular negatives, e.g. *al-näbbär-ku-m* 'I was not'. In the future, this is expressed by regular nonpast forms of the stem *hon* 'be/become', e.g. *yə-hon-al* 'he will be(come)'.

Except for sg. 3f. *näd*, with a suffix of the past conjugation (cf. Amharic *näčč̣*), the Argobba present affirmative copula is analyzable as a stem *n-* with the object suffix pronouns. The Argobba present negative copula has the negative prefix *a-* and the stem *hun* with, except for sg. 3m., pl. 1, and pl. 3 forms apparently influ-

Table 20.15   Negative copula

		Amharic	Argobba
Sg.	1	ay-dällä-hu-m	a-hun-ku
	2m.	ay-dällä-h-əm	a-hun-k-u
	f.	ay-dällä-š-əm	a-hun-ču
	pol.	(= pl. 3)	
	3m.	ay-dällä-m	a-hun-e-yu
	f.	ay-dällä-čč-əm	a-hun-äd-u
	pol.	(= pl. 3)	
Pl.	1	ay-dällä-n-əm	a-hun-änna-w
	2	ay-däll-aččəhu-m	a-hun-kuma-w
	3	ay-däll-u-m	a-hun-em-u

enced by the affirmative copula, subject suffixes of the regular past plus the neg-
ative suffix *u*. The Argobba verb of existence in the past is expressed by regular
past forms of the stem *əmbär* 'be' (cognate with Amharic *näbbär*), and existence
in the future by nonpast forms of the stem *hon* 'be(come)'.

Verb of Presence
The verb of presence in the nonpast, of locative sentences and presentatives such
as 'there is a ...', is shown in Table 20.16. The stem is *allä*, which appears only in
this conjugation. Though it expresses a nonpast, this verb, a *qärrä*-type of Table
20.4, has the form and subject suffixes of the past. The negative nonpast verb of
presence, as a main verb, is the stem *yällä* with subject suffixes of the past plus
the suffix *-m* of the negative past: e.g. *yällä-hu-m* 'I am not present'. With locative
adverbs the copula may replace the verb of presence: *əzzih näw/əzzih allä* 'he is
here/here it is'.

The verb of presence in the past and also the verb of existence is a regular past
formation of the root *nbr*: *näbbär-ku* 'I was (present)', *näbbär-k* 'you (sg. m.)
were (present)'. Presence in the future employs the stem *nor* (< *näbr*): *yə-nor-*
al 'he/it will be' (which in the past means 'reside, live': *əzzya nor-äčč* 'she lived
there'). With locatives, presence in the future may also be expressed with the
regular nonpast stem *hon* 'be/become', e.g. *yəhonal* 'he will be (present)'.

In Argobba the verb of presence in the nonpast has the form, including subject
suffixes of the past, presumably of the type of *qälla* (Table 20.7). The negative
verb of presence in the nonpast has its own stem *yällä/ellä* with the suffixes of the
negative past. Presence in the past, like existence in the past, is expressed as a
regular past formation of the stem *əmbär*, and presence in the future as a regular
nonpast formation of the stem *hon* 'be(come)'.

Possession
Possession is expressed by the verb of presence with the object suffixes, the verb
stem ordinarily agreeing in gender and number with the thing(s) possessed: *mäki-*
na allä-ňň 'I have a car' (car is(-to-)me), *əhəte bəzu ləǰočč allu-at* 'my sister has

Table 20.16   Verbs of presence

		Amharic	Argobba
Sg.	1	allä-hu	hall-uh
	2m.	allä-h	hall-ah
	f.	allä-š	hall-ih
	pol.	(= pl. 3)	
	3m.	allä	hall-a
	f.	allä-čč	hall-äd
	pol.	(= pl. 3)	
Pl.	1	allä-n	hall-ən
	2	all-aččəhu	hall-əhu(m)
	3	all-u	hall-u

many children', *əhət alläčč-əw* 'he has a sister'. For possession in the past the stem is *näbbär*: *bäqi gänzäb näbbär-at* 'she had enough money'. Amharic has other such "impersonal" verbs, which take as their object the subject of their usual translation equivalent, including verbs for being hungry and being thirsty: *rabä-ňň* 'I am hungry' (hungers-it-me), *ṭämm-aččäw* 'they are thirsty' (thirsts(-it)-them).

In Argobba, possession is expressed as in Amharic, with the verb of presence and the object suffixes, e.g. *hall-e* 'he has' ('it is to him'), *hallə-ya* 'she has' ('it is to her').

Other Compound Verb Formations
Amharic progressive and other modal verbs are expressed with various of the above simple conjugations plus auxiliary verbs. Obligation is expressed by infinitives with the verb of presence and the suffixed prepositional phrase *bb* + object suffix (see p. 461), e.g. *mäblat allä-bb-əňň* 'I have to eat', *mähed yällä-bb-əš-əm* 'you (sg. f.) don't have to go'. Habitual or conditional past is expressed by the simple nonpast and *näbbär*: *yə-nägər näbbär* 'he used to tell'/'he would have told'. Progressive aspect is expressed by the past prefixed by *əyyä-* plus the copula in the nonpast and forms of *näbbär* in the past: *əyyä-fällägä-w näw* 'he is looking for it', *əzziya əyyä-särračč näbbäräčč* 'she was working there'. "To intend to" or "be about to" is expressed by the simple nonpast prefixed by *l-* and the invariable sg. 3m. forms *näw* in the nonpast and *näbbär* in the past: *l-i-hedu* (< *l-y-hedu*) *näw* 'they intend to go', *l-ən(nə)-ṭäyyəq näbbär* 'we intended to ask'. For other adverbial clauses and their verbs, see p. 484.

Derived Verbs
There are three quite productive types of derived verb, two causatives and a passive, plus some less productive patterns of stem change for deriving verbs.

Causatives of intransitive verbs are typically formed with the prefix *a-*, for example *a-fälla* 'he boiled (caused to boil)' (*fälla* 'it boiled'); *y-a-säkər* 'he/it intoxicates, causes to get drunk' (*yəsäkral* 'he gets drunk'). Some transitive verbs whose meanings involve benefit to the self, e.g. 'eat', and 'dress', also form caus-

atives with *a-*: *a-bälla* 'he caused to eat', *y-a-läbs-allu* 'they cause to put on (clothing)/they dress (others)'. A verb in initial *a*, intransitive or not, forms its causative with *as-*, e.g. *as-ammänä* 'he causes to believe'. Conjunctive and imperative/jussive stems of *a-*causatives of triconsonantal verbs differ from the basic stem: *a-skər* 'cause to get drunk! (sg. m.)' vs. basic *səkär*, *a-skər-o* 'he, causing to get drunk' vs. basic *säkr-o*. Imperative/jussive stems of *a-*causatives of biconsonantal verbs with medial *a* also differ from the basic stem: *a-səm* 'cause to kiss (sg. m.)!', with epenthetic *ə*, absent in the presence of a suffix vowel: *a-sm-i* 'cause to kiss (sg. f.)!' vs. basic *sam* 'kiss (sg. m.)!'.

Causatives, or factitives, of transitive verbs are formed with the prefix *as-*, for example *as-gäddälä* 'he caused to kill', *y-as-fälləg-al* 'it is necessary' (lit. 'it causes to want/seek'). The *as-*causative of an intransitive is an 'indirect' causative with potential for two agents, e.g. *as-mäṭṭa* 'he caused someone to bring' (cf. *mäṭṭa* 'he came', *a-mäṭṭa* 'he brought (caused to come)', 'import' (v.t.)). Both objects of the causative verb, if definite, are suffixed by the definite object suffix *n* (see p. 465). *As-*causatives of verb types that distinguish non-geminating and geminating (B-type) stems are formed as B-types; thus the *as-*causative parallel to *yə-säbr-al* 'he breaks' is *y-as-säbbər-al*. The imperative/jussive stem of an *as-*causative of a biconsonantal verb with medial *a* differs from a basic stem: *as-lək-u* 'cause to send (pl.)!' vs. basic *lak-u* 'send (pl.)!'.

Passives are formed with the prefix *t(ä)-* and/or stem changes, e.g. *tä-bälla* 'it is eaten'. Some of these derivatives express a reflexive, e.g. *t-aṭṭäbä* 'he washed himself' (*aṭṭäbä* 'he washed'), or an intransitive of a transitive, e.g. *tä-mälläsä* 'he returned (v.i.)' (*mälläsä* 'he returned (v.t.)'). Past and conjunctive passive stems of verb types which distinguish A and B-type are identical to B-type basic stems, plus *tä-*. Passive stems of the nonpast, imperative/jussive and infinitive, some different from basic stems, are shown in Table 20.17. These have lengthening of the stem-initial consonant as the result of assimilation of the passive prefix *t*. With a nonpast, jussive or infinitive stem with initial *a*, the prefix *t* is lengthened, e.g. *yə-tt-amän* 'it is believed', *mä-tt-aläf* 'to be passed'.

A derived verb expressing reciprocity is formed by prefixing *t(ä)-* and providing the vowel *a* after the first consonant of the stem: *tä-naggäru* 'they conversed (told to each other)' (*näggärä* 'he told'), *tä-mattu* 'they hit each other' (*mätta* 'he hit'). This formation may express a habitual as in *täballä* 'he habitually ate' (*bälla* 'he ate'). Causatives of verbs of this formation are formed by prefixing *a* and, as the result of assimilation of *t-*, lengthening the stem-initial consonant: *annaggärä* 'he caused to converse'. This formation may express an 'adjutative', meaning 'help to V', as in *affallägä* 'he helped to seek' (*fällägä* 'he sought, wanted'), *awwallädäčč* 'she acted as midwife, helped to give birth' (*wällädäčč* 'she gave birth').

For a few verbs with *a-*initial basic stems, the compound prefix *as-t-* forms a causative of a passive: *as-t-awwäqä* 'he notified, announced' (*awwäqä* 'he knew'), *as-t-arräqä* 'he reconciled' (*t-arräqu* 'they were reconciled').

Table 20.17   Amharic passive stems

Nonpast	Imp.	Inf.	Gloss
k:äf:ät	tä-käfät	mä-k:äfät	'be opened'
f:äl:äg	tä-fäläg	mä-f:äläg	'be sought'
f:äĵ:	tä-fäĵ	mä-f:äĵä-t	'be consumed
l:äy:	tä-läy	mä-l:äyä-t	'be separated'
b:äl:a	tä-bäla	mä-b:äla-t	'be eaten'
l:äk:a	tä-läka	mä-l:äka-t	'be measured'
s:am	tä-sam	mä-s:am	'be kissed'
š:om	tä-šom	mä-š:om	'be appointed'
g:et	tä-get	mä-g:et	'be adorned'
b:ar:äk	tä-baräk	mä-b:aräk	'be blessed'
m:äzäg:äb	tä-mäzgäb	mä-m:äzgäb	'be recorded'
z:äräg:a	tä-zärga	mä-z:ärga-t	'be stretched'

There are "defective" verbs, some very frequent, which lack basic stems and only occur in one of the derivational patterns mentioned above, such as *a-därrägä* 'he did', *tä-därrägä* 'it was done', *as-qämmäṭä* 'he put, placed', *tä-qämmäṭä* 'he was seated, seated himself'.

An archaic prefix *n-* appears isolated in a number of such defective verbs, always preceded by one or both of the prefixes *a-* or *t-*, especially quadriconso-nantal and reduplicative verbs, including *tä-n-bäräkkäkä* 'he knelt', *a-n-ṣäbar-räqä* 'it glittered', *tä-n-ṭäläṭṭälä* 'it hung, was suspended'.

A derived verb expressing repetition, sometimes with attenuation of action, is formed by reduplicating the historical next-to-last consonant with the preceding stem-vowel *a*: *sasamä* 'he kissed repeatedly/a little' (*samä* 'he kissed'), *näkakka* 'he repeatedly/barely touched' (*näkka* 'he touched'), *läqaqqämä* 'he picked re-peatedly/here and there' (*läqqämä* 'he picked'). There are two somewhat produc-tive derivations expressing attenuative and intensive meanings and employing the verb 'say', for which see p. 480.

Causatives in Argobba are formed with the prefix *a*, and geminating-type caus-atives with *as-*; *a*-initial stems take only *as-*. Passives are derived with *t(ä)-*, and again *tä*-passives are treated as geminating types. The Argobba *tä*-stem in the past is formed with initial *ə* and assimilated *t*: *ənnekkäsa* (< *ət-nekkäsa*) 'he was bitten' (cf. *näkkäsa* 'he bit'). There is a derived reciprocal formed as in Amharic with as-similated *t* and the stem-vowel *a*: *ənnakkäsu* 'they bit one another'. Argobba has defective (never unprefixed) verbs with causatives prefixed by *as-t(ä)-*, and a number of verbs with a non-productive prefix *n* which, unlike in Amharic, may be unaccompanied by *a-* or *t-*: past *ən-ṭäläṭṭala* 'hang (v.i.)' with *a*-causative *a-n-ṭäläṭṭala*.

Denominal Verbs
Verbs may be derived from nouns by abstracting the consonants of the noun and assigning the resulting root to a verb type. Typically such denominal verbs are geminating (B-) types: e.g. from *märz* 'poison' (n.), *mä-märräz* 'to poison'.

Compound verbs with "say" and "do"
Many Amharic intransitive verbs are expressed as idioms consisting of a word with a final long consonant followed by the verb "say," including *bəqq alä* 'he appeared' and *qučč̣ alä* 'he sat down'. Transitive verbs employ "do" instead of "say": *bəqq adärrägä* 'he caused to appear'. There are two somewhat productive derivations of word stems for compounding with "say," one expressing an attenuative meaning as in *wäddäqq alä* 'he fell a little' and the other an intensive as in *wədəqq alä* 'he fell hard' (*wäddäqä* 'he fell').

The verb "say," it should be noted, has irregular imperative and conjunctive stems: *tolo bäl* 'be quick (sg. m.)!', *bəlo* 'he, saying', which preserve etymological stem-initial *b*; past and nonpast sg. 3m. and infinitive forms are *alä* 'he said', *yəl-al* 'he says' and *m-alät* 'to say'.

Argobba also has compound verbs with "say," including *qäs ala* 'he was slow', and *bəq ala* 'he appeared', and compound transitives with *mäñña* 'do'. The verb "say" has imperative and conjunctive stems with etymological *b*: *bäl* 'say! (sg. m.)', *bədo* 'he, saying' (infinitive *malät*).

Syntax
Regarding Argobba syntax, Leslau (1959: 271–273) gives some information on syntactic morphology, which is reported below along with the Amharic data.

Main Constituent Order
With few exceptions (e.g. some cleft sentences, p. 483), the verb is final in Amharic main clauses, as in:

tämari-w ṭəyyaqe ṭäyyäq-ä
student-Def. question asked-he
'The student asked a question.'

The verb is also final in subordinate clauses, as seen in examples below. Typically, the subject is first in the sentence, as in the above example. However, with the combination of a topicalized (definite, backgrounded) object and a focused subject (new or foregrounded information), the object precedes the subject, and a "resumptive" object pronoun is suffixed to the verb, as in:

yəh-ən wämbär yohannəs särra-w
this-Obj. chair Yohannes made-he-it
'Yohannes made this chair.'

Pre-subject instrumental prepositional phrases are similarly expressed as resumptive suffixes on the verb.

bä-mäṭrägiya-w setəyye-w bet-u-n ṭärräg-äčč-əbb-ät
with-broom-the woman-the house-Def.-Obj. swept-she-with-it
'The woman swept the house with a broom.'

Interrogative pronouns are preverbal; they are not fronted: *Yohannəs mən fällägä* 'what did Yohannis want?', *säwoččü yet hedu* 'where did the people go?'

Question Particles
Yes–no questions may be marked by rising intonation, sentence-final question words *ande* 'really?' or *wäy*, or the literary/archaic verb suffix *-nə*; for example, *Aster təhedaläčč way/ande* 'will Aster go?' *Aster təhedaläčč-ənə*. A one-word "reprise" question may be marked by a suffix *-ss*: *təhedalləh (wäy) – awon. anči-ss* 'will you (sg. 2m.) go? – Yes. And you (sg. 2f.)?'.

Noun Phrase Order
The head noun is final in the noun phrase: *ṭaru mäls* 'a good answer', *yä-peṭros addis mäkina* 'Petros's new car'. In a few noun phrases borrowed from Ge'ez or modeled on Ge'ez, this order is reversed, and *ä* is suffixed to the attributive head noun: *bet-ä mäṣahəft* 'library' (lit. 'house-of books'), *ṣär-ä abəyot* 'counter-revolutionary' (lit. 'enemy-of revolution').

Prepositions and Postpositions
Some typical prepositions are *bä-* and *ə-* 'at, in', *lä-* 'for', *kä-* 'from' (*tä-* in northern dialects), *səlä-* 'about' and *əndä-* 'like' (the latter two may be written as separate words). Some positional relations, however, are expressed with postpositions, and some with circumpositions, including *(ə-) ... lay* 'on, upon', *(bä-) ... wəsṭ* 'in(to), inside', *kä-... bä-fit* 'before, in front of', *kä-... bä-hʷala* 'after, behind': e.g. *betu wəsṭ gäbba* 'he went into the house'. The four postpositions *lay* 'top', *wəsṭ* 'interior', *fit* 'front', and *hʷala* 'back' are nouns.

Clause Coordination
Noun phrases are coordinated by suffixing *-nna* to the next-to-last noun: *bal-ənna mist* 'husband and wife'. Clauses may also be coordinated with *-nna* if the verb to which the conjunction is suffixed is a past, simple nonpast, or imperative: *tänässu-nna wäṭṭu* 'they got up and left', *yəmäṭa-nna yayal* 'he will come and he will see' (*yəmäṭa* is simple nonpast, lacking the main verb auxiliary suffix *-al*), *hid-ənna əy* '(you (sg. 2m.)) go and see'. Alternatives are coordinated with *wäy-m* or *wäy-s* after the first noun phrase or clause, the latter for questions (cf. the question particle *wäy*, p. 481). The role of coordinated clauses is often fulfilled by clauses of simple conjunctive verbs (see p. 473), which need no conjunction. "Exception" or "but"-clauses are coordinated with *(nägär/daru) gən* 'but', first in the clause.

The suffix expressing "and" in Argobba is *-nna*, "but" is *(nägär) gən*, and words expressing "or" are *we-m* and *we-s*, the latter for questions.

Adjective (Relative) Clauses
These are formed by prefixing yä- (also the prefix of possession, see p. 464) to the
verb in the past and yä-mm- to the verb in the nonpast. The dialect of Gojjam has
simply m- as the prefix for nonpast verbs, and the dialects of Menz and Wello
əmm-, the latter also known in older Amharic literature.

> kä-gurage yä-tä-gäññä hawlt
> in-Gurage Rel.-Pas.-found(-it) statue
> 'a statue which was found in Gurage'

> səlä-tarik yämm-i-nägər mäṣəhaf
> about-history Rel.-it-tell book
> 'a book which tells about history'

The head noun of the adjective clause may be object of a preposition, which
appears as a suffix of the relativized verb:

> ya yä-tä-wälläd-ku-bb-ät bet näw
> that Rel.-Pas.-born-I-in-it house is
> 'That's the house I was born in.'

If the verb has another prefix, such as bä-, yä- is absent: səlä-tarik bä-mm-i-
nägər mäṣəhaf 'in a book which tells about history'. In the dialect of Gojjam and
in the older Amharic literature, the plural verb of an adjective clause may take the
plural suffix of nouns -očč, e.g. yä-mäṭṭ-očč säw-očč 'the people who came'.
   The relative verb form appears in a cleft sentence, for which see p. 483.
   In Argobba the past tense verb of an adjective clause is prefixed by yä-: ähe-yä-
n yä-näkkäs-e wəšša 'the dog which bit my brother' (yä-näkkäs-e 'which bit
him'). The nonpast verb of an adjective clause is prefixed by yämm- or əmm-:
yämm-isädəb su 'a man who insults', əmm-isädbu suč 'men who offend'. If the
verb is preceded by another prefix, yä is absent: tä-wäddäqa bet 'from a house
which fell'.

Noun Clauses
A noun clause can be formed with the prefix l- and the nonpast, where the subject
of the resulting noun clause and main clause are ordinarily the same:

> l-ə-wäsd-aččäw a-l-fälläg-əm
> that-I-take-them Neg.-I-want-Neg.
> 'I don't want to take them.'

The same meaning may be expressed with an infinitive verb as follows: ənnässu-
n lä-mäwsäd a-l-fälləg-əm (lit. 'them-Obj. for-to take Neg.-I-want-Neg.') 'I don't
want to take them'.

Another noun clause expressing purpose, whose subject need not be that of the main clause, employs the prefix *ənd-*:

əndə-n-mäṭa yəfälləg-allu
that-we-come want-they
'They want us to come.'

A somewhat literary noun clause similar in meaning is expressed with the simple nonpast verb followed by the word *zänd*: *yə-mäṭa zänd ənnə-fälləg-allän* 'we want him to come'.

As adjectives may function as nouns, so adjective clauses may function as noun clauses; for example:

yä-tä-gäññä-w gurage wəsṭ nä-w
Rel.-Pass.-found(-it)-Def. Gurage in is-it
'What was found is in Gurage(land).'

yämm-i-nägr-əš wəšät nä-w
Rel.-he-tell-you (sg. f.) false is-it
'What he tells you (sg. f.) is false.'

As definite objects of the verb, such clauses are suffixed by the definite object suffix *-n*:

yä-ṣaf-k-äw-n anäbbäb-ku
Rel.-wrote-you (sg. m.)-it-Def. read-I
'I read what you wrote.'

Very frequent in Amharic are "cleft" sentences expressing presupposed propositions and employing the nominalized relative clause. The following sentences presuppose that 'someone ordered it'.

y-azzäz-u-t əssaččäw n-aččäw
Rel.-ordered-he (pol.)-it he (pol.) is-he (pol.)
'It is he (pol.) who ordered it.'

y-azzäz-u-t man n-aččäw
Rel.-ordered-he (pol.)-it who is-he (pol.)
'Who is it who ordered it?'

The latter may be more common than the simpler question *man azzäzut* 'who ordered it?'. In such sentences an exception to verb-final order is common, the copular verb being in medial position and the noun clause last: *əssaččäw naččäw y-azzäz-u-t* 'it is he who ordered it'.

Adverbial Clauses

These are marked by a complementizing/subordinating prefix on the clause-final past or nonpast verb. A common time clause is expressed with the prefix *s-* 'when' (*t-* in northern dialects other than Gondar) and a common conditional clause with the prefix *b-* 'if', both with the nonpast verb. An example of the former is:

tämari ṭəyyaqe s-i-ṭäyyəq astämari-w a-y-mälləs-əm
student question when-he-ask teacher-Def. Neg.-he-answer-Neg.
'When a student asks a question, the teacher doesn't answer.'

Direct speech in a time clause with *s-* and the verb "say" expresses imminent intent: *əwäṭalləhu s-i-l* 'when he was about to go out' (lit. 'when he said "I will go out"') (the stem of 'say' in this form is simply *-əl-*, the vowel of which is elided by the subject prefix *i-* < *y-*).

Some adverbial clauses are expressed by prepositional prefixes plus the past form of the verb, or with circumpositions (with a preposition and a postposition; cf. p. 481), for example: *kä-* 'if', *əyyä-* 'while', *kä-... ǰämmər-o* 'since' (*ǰämmər-o* 'he,'beginning'; or with appropriate conjunctive subject suffix), *bä-... gize* 'when', *kä-... bähʷala* 'after' (*bä-hʷala* lit. 'at back'), *kä-... bäfit* 'after' (*bä-fit* lit. 'at front'). An example of the latter is:

kä-zännäb-ä bäfit bet gäbba-n
from-rained-it before house entered-we
'Before it rained, we entered the house.'

Adverbial clauses are also expressed by three prepositional prefixes which occur only with the past form of verbs or with the nonpast prefixed by *mm-*; these are *əndä-* 'like, as', *sälä-* 'because', and *əskä-* 'until'. Some examples are *əssu əndä-ṣafä* 'like he wrote', *əssu sälä-mm-i-ṣəf* 'because he writes', *əskä-mm-i-mäṭa* 'until he comes'. The 'until' clause, however, may employ *əsk-* plus the simple imperfect: *əsk-i-mäṭa* 'until he comes'.

Comparative clauses may be expressed by relative and causative conjunctive forms of stative verbs, such as *yä-bälläṭä* 'which exceeds', *y-annäsä* 'which is less, and *a-bälṭ-o* 'he/it making it greater'.

kä-ňňa yə-bälläṭä ənnässu särr-u
from-we (which) it-exceeded they worked-they
'They did more than us.'

kä-ňňa əsswa a-bälṭ-a taṭänalläčč
from-us she Causative-exceeding-she studies
'She studies more than us.'

Time clauses in Argobba are expressed with *s-* 'when' with the simple nonpast

and *bä-... gize* 'when' (lit. 'at ... time') with the past. "After" clauses employ *tä-* with the past followed by *čugga* or *bäjed*, and "since" clauses *tä-* with the past followed by *čoga* or *čugga*. Conditional clauses are expressed with the prefix *b-* 'if' and the nonpast verb, and an "in order that" clause with *l-* and the simple nonpast. 'Because' is *sälä-* plus the verb in the past.

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21 Harari

Ewald Wagner

Harari is the language spoken by the people living inside the walls of the city of Harar in southeastern Ethiopia. The urban area outside the walls is occupied by the Amharic-speaking administrators, teachers, soldiers etc., while the country-side is populated by several Oromo-speaking tribes and the Argobba, who nowa-days speak Oromo, too. The frontier of the Somali-speaking area is some fifty to a hundred kilometers from the city.

Formerly, the population inside the walled city was estimated to be circa 30,000 individuals. After the 1974 revolution, however, the Rural Property Act of 1975 and the Urban Property Act of the same year destroyed much of the Hararis' means of existence, which led to a large-scale emigration to other parts of Ethi-opia, specially to Addis Ababa, and to foreign countries (Saudi Arabia, Canada etc.). The number of Harari speakers inside the walls was reduced to about 8,000 as members of other ethnic groups, especially Christian Amharas, flocked in. As a result, considerable diaspora colonies of Hararis developed outside the city, that of Addis Ababa numbering more than 20,000.

The names Harar and Harari are used by native speakers only when writing. In spoken language, they use *ge:y* 'town' for Harar and *ge:y sina:n* 'language of the town' for Harari. The Amhara call the language *adarəñña*, that is, the Oromo name *adare* with an Amharic ending.

While Harari now is a speech island, in the time before the sixteenth-century Oromo invasion there might have been a coherent Semitic-speaking area up to the Eastern Gurage languages which, together with Harari, according to Hetzron's classification, form the Eastern group of "Transversal South Ethiopic" (Hetzron 1972: 42–44, 119). In the region of Bissidimo is a village named Koromni in which the women speak Harari while the men speak Oromo. This may be a rem-nant of a former larger extension of Harari, but it may also be due to a military colony of the Emirs of Harar or to trade relations.

We know Harari in two chronologically different forms. Ancient Harari is writ-ten in Arabic letters because the Harari are Muslims. Ancient Harari literature is mostly religious. The author of at least one text is known and can be dated in the middle of the eighteenth century. It is not impossible, however, that some texts are even older. In written texts the ancient form of the language was used until the sec-ond half of the nineteenth century. Modern Harari might have developed during

the nineteenth century. It differs from Ancient Harari in vocabulary, morphology and syntax. The most important differences will be mentioned in the following paragraphs.

Harar was the center of Islam in southeast Ethiopia and this had its effects on the language. There are many Arabic loanwords in Ancient as well as Modern Harari. The vocabulary of Modern Harari is also much influenced by Oromo. The impact of Somali is less. It may be that Arabic and Oromo had also their influence on the Harari phonological system (see below).

Phonology

Consonants
The consonant phonemes of Harari are:

	labials	labio-dentals	apicals	palatals	velars	pharyn-geals	glottals
plosives	b		d, t, ṭ		g, k, q		ʾ
affricates				ǧ, č, č̣			
fricatives		f	z, s	š	(γ), x	ḥ	
nasals	m		n	ñ			
laterals			l				
vibrants			r				
half-vowels	w			y			

As in the other Ethio-Semitic languages the emphatic consonants *ṭ*, *č̣*, and *q* are glottalized and not velarized. *γ* occurs only in Arabic loanwords.

The main changes in comparison with Geʿez are: Geʿez *ṣ*, *ḍ* became *ṭ*: Geʿez *ṣarḥa* 'to shout' > Har. *ṭaraḥa* 'to name'; Geʿez *ḍərs* 'molar tooth' > Har. *ṭirsi*. Geʿez *š* became *s*: Geʿez *karš* 'belly' > Har. *karsi*. Geʿez *h, x* became *ḥ*: Geʿez *hal-lo:* 'to be'> Har. *ḥal* 'there is'; Geʿez *xadara* 'to stay' > Har. *ḥadara* 'to spend the night'. Geʿez *ʿ* became *ʾ*: Geʿez *samʿa* 'to hear' > Har. *samaʾa*. Sporadic changes are: Geʿez *k* may become *x*: Geʿez *ko:na* 'to be' > Har. *xa:na*, but Geʿez *karš* 'belly' > Har. *karsi*. Geʿez *ʾ* and *ʿ* (via *ʾ*) may become zero. So the verbs IIʾ/ʿ mostly have two or three forms: *laʾaxa* and *la:xa* (Geʿez *laʾaka*) 'to send'; *ṭaʾana, ṭa:na* and *ṭe:na* (Geʿez *ṣaʿana* and *ṣaʿəna*) 'to load'.

d, t, ṭ, s, n, and *l* can be palatalized, becoming *ǧ, č, č̣, š, ñ,* and *y*. The palatalization is regularly caused by the final *-i* of the sg. 2f. of the nonpast (see p. 497). Some examples are: *iǧi* (Geʿez *ʾəd*) 'hand'; *če:xa* (Geʿez *takala* 'to plant') 'to build'; *č̣a:ya* (Geʿez *ṣəla:lo:t*) 'shadow'; *ša:ra* (Geʿez *saʿara*) 'to abolish'; *iñña* (Geʿez *nəḥna*) 'we'; *ixi:y* (Geʿez *ʾəkəl* 'food') 'cereal'.

Harari has given up the gemination of consonants in verbal morphology, but there exist lengthened consonants as archaic relics in nouns and – also in verbs – in consequence of assimilation, at the junction of morphemes and by other rea-

sons.

Vowels

The vowel system of Harari gives some problems. Normally Harari is considered as one of the few Ethio-Semitic languages in which vowel length is phonemic. This is due to the fact that on the phonetic level long vowels can easily be perceived in Harari speech and that these long vowels are not free variants and not conditioned by the position of the word in the sentence. The long vowels are lexically or morphologically fixed. There are, however, some reasons which speak against the phonemic value of vowel length. First, it is almost impossible to find minimal pairs with the opposition between short and long vowels. Second, if one considers the variant *ä* of *a* and the variant *ə* of *i* as the intended vowels, it is possible to construct a vowel system in which all vowels differ in quality so that the quantity may be neglected: *ä, a:, e:, ə, i:, o:, u:*. Third, the orthography of Ancient Harari does not make use of the ability of the Arabic script to express vowel length: plene and defective writing is mixed up without any rule.

A possible remedy to the problem may be that the phonemicity was revived in Harari by outside influence. Through Islamization, a lot of Arabic words overflowed the language and after the Oromo invasion a new wave of loans intruded into Harari. In both donor languages vowel quantity is very relevant. By this the Hararis won back their sensitivity to the importance of vowel quantity. That might have affected autochthon words in which length and shortness originally were realized only due to position, but then became stabilized according to the most frequent use, so that length and shortness became lexically fixed. This may explain that there are no minimal pairs. Since the long and the short form of each vowel originated from a single phoneme, oppositions can only emerge from neologisms.

Tentatively, we may establish the following vowel system for Harari:

a (with the allophones: *ä* inside the word beside other consonants than *ʾ*, *ḥ*, and
   palatals; *e* beside palatals; *ȧ* after w)
a:
i (with a free variant *ə*)
i:
u (with a free variant *ə*)
e (seldom)
e:
o (seldom)
o:

This vowel system is very similar to that established by Ernst-August Gutt for Silte, which is the nearest relative to Harari (Gutt 1983: 37–73):

Peculiar Phenomena

Neither stress nor tones are phonemic in Harari.

Morphology

Pronouns

Independent Personal Pronouns
The independent personal pronouns are:

Sg. 1c.	*a:n*		Pl. 1c.	*iñña, iñña:č*
2m.	*axa:ax*		2c.	*axa:xa:č*
f.	*axa:š*			
3m.	*azzo*		3c.	*azziya:č*
f.	*azze*			

There exist polite forms for sg. 2 *axa:xu* and sg. 3 *azziyu* which seem to be the original forms of the plural while the forms in *-a:č* are secondarily formed with the nominal plural suffix (see p. 492). The elements *-x, -š, -zo, -ze, -xu, -ziyu* are taken over from the possessive suffixes (see below). The origin of *ax-* and *az-* is not clear.

The independent personal pronouns need not be used in verbal sentences because the verb expresses the persons sufficiently.

In Ancient Harari the independant personal pronouns are often combined with the genitive marker *z(i)-* to form independent possessive pronouns: *ya: rabbana: zixa:xin tana za'an balana* 'O our lord, we are yours. Call us: mine'; *zi-iñña ḥa:ǧa:t* 'our needs'. In Modern Harari this construction no longer exists because the genitive marker became obsolete (see p. 492).

Personal Suffixes

Possessive Suffixes
The possessive suffixes attached to substantives are:

Sg. 1c.	*-e, - e'e, - eye*	Pl. 1c.	*-zina*
2m.	*-xa*	2c.	*-xo*
f.	*-xaš*		
3m.	*-zo*	3c.	*-ziyu*
f.	*-ze*		

The sg. 2f. is a combination of the sg. 2m. and the original element for the sg. 2f. *-š* (< *-ki*), which is still found as object suffix attached to verbs (see above). The forms with *z-* are composed of the genitive marker *z(i)-* and the original suffixes: •*zi-o* > *-zo* (*-o* still existed in Ancient Harari: *sumo* 'his name'); *zi-ha:* > *-ze*; *zi-hum* > *-ziyu*. Perhaps it would be more logical to analyze these forms as a combination of *zi-* and the independent pronouns: *zi-huwa* > *-zo*; *zi-hiya* > *-ze*; *zi-nǝḥna* > *-zina*; *zi-hum* > *-ziyu*, but the Ancient Harari *-o* 'his' speaks against this.

Another solution would be to suppose a lost prepositional element: *zi-lahu >
*zilo > *ziyo > *zo; *zi-laha: > *zila: > ziya > -ze; *zi-lana > *zi-lna > *zinna >
-zina; *zi-lahum > *zilhu(m) > *zillu > -ziyu. These, however, are all speculations.

In Ancient Harari forms with z- existed also for the 2nd person since the inde-
pendent possessive pronouns formed by a combination of z(i)- with the indepen-
dent personal pronoun (see p. 489) could be used as suffixes, too: fadli-zixa:x
'your excellence'.

Since Modern Harari normally uses postpositions instead of prepositions there
are no special forms for the combination preposition + suffix except inside verbal
constructions (see Object Suffixes, below). The postpositions are placed behind
the independent personal pronoun: a:n-be 'with me'. In Ancient Harari preposi-
tions also, could be used with the independent personal pronouns: imal-axa:x
'without you'; t-axa:x massa 'like you'.

Object Suffixes
The object suffixes are attached to the verb either directly (for the accusative) or
together with the prepositions -b- ('in, by, with, from, to the detriment of') or -l-
('for, to the benefit of'). The suffixes are (acc. behind a verbal form ending in a
consonant):

Sg.	1c.	-añ	Pl.	1c.	-ana
	2m.	-ax		2c.	-axu
	f.	-aš			
	3m.	-a		3c.	-ayu
	f.	-e			

The following examples show the changes and contractions that take place if
the verb ends in a vowel. Examples are also given for preposition + suffix.

Table 21.1   Object suffixes: verbs ending in a vowel

		Past sg. 3m. sabara 'he broke'	Past pl. 3c. sabaru 'they broke'	Simple nonpast sg. 3m. yisabri 'he breaks'
Sg.	1c.	sabare:ñ	sabaruñ	yisabrañ
	2m.	sabare:x	sabarux	yisabrax
	f.	sabare:š	sabaruš	yisabraš
	3m.	sabare:w	sabaro	yisabra
	f.	sabare	sabare	yisabre
Pl.	1c.	sabare:na	sabaruna	yisabrana
	2c.	sabare:xu	sabaruxu	yisabraxu
	3c.	sabare:yu	sabaruyu	yisabrayu

The suffix -a of the sg. 3m. in yisabra 'he breaks him' is hard to explain. While
the -w in sabare:w 'he broke him' seems to be the old *-hu, the form sabaro 'they

Table 21.2   Preposition and suffix

		Jussive pl. 3c. + -b- yake:bu + -b- 'may they testify against'	Imperative sg. 2f. + -b- ke:bi + -b- 'testify (f.) against!'
Sg.	1c.	yake:b(u)buñ	ke:b(i)biñ
	2m.	yake:b(u)bux	
	f.	yake:b(u)buš	
	3m.	yake:b(u)bo	ke:b(i)ba
	f.	yake:b(u)be	ke:b(i)be
Pl.	1c.	yake:b(u)buna	ke:b(i)bina
	2c.	yake:b(u)buxu	
	3c.	yake:b(u)buyu	ke:b(i)biyu

broke him' again can be analyzed more easily as *sabaru-a than as *sabaru-hu. The suffix -e of the sg. 3f. might have been taken over from the possessive suffix -ze. In the prefix conjugations the final -u of the plural and the final -i of the sg. 2f. may be preserved or elided before the preposition -b-. In the case of elision the plural or the feminine can be recognized only through the assimilated vowel of the suffix: *yake:buba > yake:bubo > yake:bbo 'they may testify against him' against yake:bba 'he may testify against him'; *ke:bibañ > ke:bibiñ > ke:bbiñ 'testify (f.) against me!' against ke:bbañ 'testify (m.) against me!'. Another explanation could be that the vowels of the forms with preposition follow the analogy of the forms with accusative objects, for instance: yake:ba : yake:bo = yake:bba : x; x = yake:bbo.

Demonstrative Pronouns
The demonstrative pronouns for the near are:

Sg. m.   *yi* 'this'   Pl. c.   *yiya:č, ḥiya:č*
   f.   *yitta, itta, ḥiya, ḥi:ya*

The demonstrtive pronouns for the remote are:

Sg. m.   *ya', azzo*   Pl. c.   *azziya:č*
   f.   *yatta, azze*

The demonstrative pronouns with the element y can be used independently and as attributes. In the latter case they precede the substantive. The other demonstrative pronouns which originate from Harari or Arabic personal pronouns seem to be used independently only. The whole system seems to be incomplete.

Interrogative Pronouns
The interrogative pronouns are: *ma:n* 'who'; *min* 'what'; *a:y* 'which'. They can be combined with postpositions to form interrogative adverbs, for instance: *min-*

le, mille 'why'; *a:y-kut* 'how'.

Reflexive Pronouns
The reflexive is either expressed by the reflexive forms of the verb or by *aṭṭi*, for instance *aṭṭi-zo* 'he himself'. Wolf Leslau derives it from *a:ṭ* 'bone' (< *ʿaṣəm*). *aṭṭi baṭṭi* means 'one another'.

Nouns

Definiteness
The noun can be made definite by adding the possessive suffix of sg. 3m. *-zo* (see p. 489): *ga:r-zo* 'his house' and 'the house'. This, however, is not obligatory. In most cases definiteness can only be deduced from the context.

Gender
Harari does not distinguish between the genders through a form element. An inherited *t*-element at the end of the word no longer means that a noun is feminine. Some nouns are feminine by nature, for instance female persons and localities: *a:y* 'mother'; *ge:y* 'land, town'.

Number
The plural morpheme is *-a:č*: *ga:r* 'house', *ga:ra:č* 'houses'. This suffix need not be placed if the plurality is clear from the context or if it is not emphasized. After cardinal numbers the counted noun stands in the singular or in the plural. An adjective belonging to a plural has no *-a:č*.
   A dual does not exist.

Case System
The nominative (subject case) has no special form.
   In Modern Harari the genitive is only indicated by its position before the reigning substantive: *liǧ ga:r* 'the house of the boy'. In Ancient Harari the relative element *zi-* normally functioned as a genitive marker: *zi-da:na ṭa:ya* 'the shadow of the cloud', although the modern construction was possible, too: *zar mi:y* 'the water of the river'. The opposite sequence of words was rare. It seems to have been an Arabic influence: *di:nat ge:y* 'the wealth of the land'.
   The accusative can be indicated by the suffix *-w*. In older transcriptions (Cerulli, Leslau) this *-w* occurs only after vowels while after consonants the accusative suffix is written *-u*. It should be, however, *-uw*, the *-u* being only a helping vowel. The *-w* could have been taken over from the verbal object suffix (*sabare:w* 'he broke him', cf. p. 490).
   The placing of the accusative suffix is not obligatory. Definiteness, obviously, does not play a part in it.
   Other relations between the verb and its objects must be expressed by postpositions, e.g. the dative *-le* (< *la-*), the locative instrumental *-be* (< *ba-*).

Adjectives

On the whole, Harari is not very rich in adjectives. They are often substituted by relative clauses. Many of the existing adjectives are formed according to the patterns *sabi:r, sibi:r, saba:r, siba:r*. There are, however, also other patterns.

As attributes, the adjectives are placed before the qualified substantive: *gidi:r maga:la* 'the big market'. As predicatives, they stand before the copula: *ga:r gidi:rin ta* 'the house is big'.

There are no special patterns for gradation. 'Than' with the comparative is expressed by the postposition *-be*. The superlative must be paraphrased by a genitive or postpositional construction.

In Ancient Harari there existed a pattern *asbir* which could be formed only from Arabic roots. Together with the verb *a:ña* 'to make' it formed phraseological verbs: *afrih a:ña* 'to give pleasure' (Ar. *frh*); *akrim a:ña* 'to be generous' (Ar. *krm*); *aslih a:ña* 'to make happy' (Ar. *ṣlḥ*).

Numerals

The numerals are:

	Cardinals	Ordinals
1	*aḥad*	*aḥatta:n*
2	*ko'ot, ko:t*	*ko'otta:ñ*
3	*ši'išti, ši:šti*	*ši'išta:ñ*
4	*ḥarat*	*ḥaratta:ñ*
5	*ḥammisti*	*ḥammista:ñ*
6	*siddisti*	*siddista:ñ*
7	*sa:tti*	*sa:tta:ñ*
8	*su:t*	*su:tta:ñ*
9	*ziḥṭañ*	*ziḥṭañta:ñ*
10	*assir*	*assirta:ñ*
11	*asra:ḥad*	
12	*asra:ko:t*	
13	*asra:ši:šti*	
20	*kuya*	
30	*sa:sa*	
40	*ḥaratassir, arba'i:n(a), arbi:n(a)*	
50	*ḥammistassir, xamsi:n(a)*	
60	*siddistassir, sitti:n(a)*	
70	*sa:ttassir, sab'i:n(a)*	
80	*su:tassir, tama:ni:n(a)*	
90	*ziḥtana, tis'i:n(a)*	
100	*baqla*	
1000	*kum, alfi, alfa*	
1935	*alfa ziḥtañ baqla sa:sa ḥammisti*	

The suffix for forming the ordinal numbers is now *-ta:ñ*, but originally it could have been *-a:ñ* (cf. Amharic *-äñña*) to which the *t* was added by wrong separation in those cases in which the cardinal number ended in *t*.

Verbs

Roots
The Harari verbal roots normally have three radicals. Verbs with four radicals also occur. Biradical roots may be interpreted as triradical with one weak radical.

Types
The triradical verb has four types which are differentiated by the vowel behind the first radical:

   Type A: *sabara*
   Type B: *se:bara*
   Type C: *sa:bara*
   Type D: *so:bara*

The quadriradical verb has two types:

   Type A: *gilabaṭa*
   Type C: *liqa:laqa*

Normally the difference between the types is only formal and no longer semantic. It is only in combination with some derivational classes that a former semantic value is preserved, so the reflexive *ta-* (see below) + type C expresses reciprocity: *taga:dala* 'to quarrel with each other' from *gadala* 'to kill'. An adjutative is formed by the combination of the *at-*causative and the type C: *atḥa:rasa* 'to help to plow' from *ḥarasa* 'to plow'.

Derivational Classes
The derivational classes are formed by the reduplication of the second radical or by prefixes or by the combination of both. The simple reduplication forms the frequentative which expresses repeated or intensive action:

   Type A, B, C: *siba:bara*
   Type D: *suba:bara*

ta-Reflexive

   Type A: *tasabara*
   Type B: *tase:bara*
   Type C: *tasa:bara*
   Type D: *taso:bara*

The meaning of the *ta*-reflexive is reflexive, passive or merely intransitive. The *ta*-form of type C expresses reciprocity (see p. 494). The same is true for the *ta*-form of the frequentative: *tasba:bara*.

a-Causative

Type A: *asabara*
Type B: *ase:bara*
Type C: *asa:bara*
Type D: *aso:bara*

The *a*-causative is formed from intransitive verbs to make them transitive.

at-Causative

Type A, B, C: *atbe:rada*
Type C: *atba:rada*
Type D: *atbo:rada*

Verbs of the type A and B form their *at*-causative according to type B; those of the type C either according to the type B or C. The type C of the *at*-causative also forms causatives of the reciprocal and adjutatives (see p. 494). The causative of the reciprocal is formed by the *at*-form of the frequentative, too:

Type A, B, C: *atbira:rada*
Type D: *atbura:rada*

Note: The paradigm verb is changed from *sabara* to *barada* here because in case of *sabara* the *t* of *at*- has to be assimilated: *assabara* etc.

The prefix *an*- and its reflexive *tan*- are no longer productive.

Tenses and Moods

Harari has two main tenses and two moods. The tenses are the past, formed in the type A by the stem *sabar*- + suffixes, and the nonpast, formed by the stem *-sabr*- + prefixes and suffixes. The moods are the jussive, formed by the stem *-sbar*- + prefixes and suffixes, and the imperative formed by the same stem + suffixes. The forms (sg. 3m.; imperative sg. 2m.) are:

Ground stem:	A	B	C	D
Past	*sabara*	*se:bara*	*sa:bara*	*so:bara*
Nonpast	*yisabri*	*yisi:bri*	*yisa:bri*	*yi/usu:bri*
Jussive	*yasbar*	*yase:bri*	*yasa:bri*	*yaso:bri*
Imperative	*sibar*	*se:bri*	*sa:bri*	*so:bri*

Frequentative:	A, B, C			D
Past	*siba:bara*			*suba:bara*
Nonpast	*yisba:bri*			*yusba:bri*
Jussive	*yasba:bri*			*yasuba:bri*
Imperative	*siba:bri*			*suba:bri*

ta-Reflexive:	A	B	C	D
Past	*tabarada*	*tabe:rada*	*taba:rada*	*tabo:rada*
Nonpast	*yitbarad*	*yitbe:rad*	*yitba:rad*	*yitbo:rad*
Jussive	*yatbarad*	*yatbe:rad*	*yatba:rad*	*yatbo:rad*
Imperative	*tabarad*	*tabe:rad*	*taba:rad*	*tabo:rad*

ta-Reflexive of the frequentative = reciprocal stem:

Past	*tabra:rada*
Nonpast	*yitbira:rad*
Jussive	*yatbira:rad*
Imperative	*tabra:rad*

a-Causative:	A	B	C	D
Past	*asabara*	*ase:bara*	*asa:bara*	*aso:bara*
Nonpast	*yasabri*	*yasi:bri*	*yasa:bri*	*yasu:bri*
Jussive	*yasbir*	*yase:bri*	*yasa:bri*	*yaso:bri*
Imperative	*asbir*	*ase:bri*	*asa:bri*	*aso:bri*

at-Causative:	A, B, C	C = causative of the reciprocal		D
Past	*atbe:rada*	*atba:rada*		*atbo:rada*
Nonpast	*yatbi:rdi*	*yatba:rdi*		*yatbu:rdi*
Jussive	*yatbe:rdi*	*yatba:rdi*		*yatbo:rdi*
Imperative	*atbe:rdi*	*atba:rdi*		*atbo:rdi*

Causative of the reciprocal = adjutative:

	A, B, C	D
Past	*atbira:rada*	*atbura:rada*
Nonpast	*yatbira:rdi*	*yatbura:rdi*
Jussive	*yatbira:rdi*	*yatbura:rdi*
Imperative	*atbira:rdi*	*atbura:rdi*

The nonpast was the normal form for present and future in main clauses in Ancient Harari. In Modern Harari it is restricted to some subordinate clauses. In main clauses it is superseded by the compound nonpast which is built by combining the simple nonpast and the auxiliary *ḥal* 'to exist' (see p. 507): *yisabri* + *ḥal* = *yisabra:l*. Also for the past two new compound tenses developed, both formed with the auxiliary *na:ra* 'was': *sabara na:r(a)* forms a pluperfect while by *yisabri na:r(a)* a habitual action in the past is expressed.

Conjugations

Table 21.3   Conjugated forms

		Past	Nonpast	Compound nonpast	Jussive	Imperative
Sg.	1c.	sabarxu	isabri	isabra:x	nasbar	
	2m.	sabarxi	tisabri	tisabra:x	atsibar (neg.)	sibar
	f.	sabarši	tisabri	tisabra:š	atsibari (neg.)	sibari
	3m.	sabara	yisabri	yisabra:l	yasbar	
	f.	sabarti	tisabri	tisabra:t	tasbar	
Pl.	1c.	sabarna	nisabri	nisabra:na	nasbar	
	2c.	sabarxu	tisabru	tisabra:xu	atsibaru (neg.)	sibaru
	3c.	sabaru	yisabru	yisabra:lu	yasbaru	

In the forms *sabarxi* (sg. 2m.), *sabarti* (sg. 3f.), *isabri* (sg. 1c.), *tisabri* (sg. 2m.; sg. 3f.), *yisabri* (sg. 3m.), and *nisabri* (pl. 1c.) the final *-i* is euphonic and is deleted if an object suffix is added: *sabarxañ, sabartañ, isabrax, tisabrañ, yisabrañ, nisabrax*. Contrary to that, the *-i* of *sabarši* (sg. 2f.) and *tisabri* (sg. 2f.) is original and not deleted: *sabaršiñ, tisabriñ*.

The *-i* of the sg. 2f. of the nonpast causes the palatalization of the final epicals *d, t, ṭ, s, n, l* (> *ǧ, č, č̣, š, ñ, y*): *tilamǧi* from *lamada* 'to learn', *tilabši* from *labasa* 'to dress', *tinadyi* from *nadala* 'to make a hole'. The palatalization can also affect the first and second radical and even the prefix: *tikačbi* from *kataba* 'to write', *tisagǧi* and *tišagǧi* from *sagada* 'to prostrate', *čiki:bi* from *ke:ba* 'to testify'.

In the compound nonpast the object suffixes are inserted between the main verb and the auxiliary: *tisabrahat* 'she breaks him', *t/cišabriyuhuš* 'you (f.) break them', but *yisabruxa:l* 'they break you (m.)' with the *-u* of the plural on the main verb, not on the auxiliary.

In the jussive the sg. 1c. has the prefix *na-* (like the pl. 1c.) and not *a-*. This *n* originates from a conjunctional *l-* as some forms preserved in Ancient Harari show: *l-ilmad* 'I may learn' (variant reading: *lalmad*, already with *a* in analogy to the other persons).

Passive Voice and Impersonal Verbs
Harari has two different ways to express the passive voice. One is the *ta*-reflexive; the other works by making the subject of the active sentence object of a verb in pl. 3c.: *agaduñ* 'I was tied', literally 'they tied me'. This construction is also possible with intransitive verbs, corresponding to the French *on* or German *man*.

There exist some impersonal verbs in Harari. The verb stands in the sg. m. to which the actor is added as accusative suffix: *ṭararañ* 'I am thirsty', cf. German *mich dürstet*.

Verbal Nouns and Participles
In Ancient Harari the infinitive was formed by the pattern *siba:ro:t: liba:so:t*

'dressing' from *labasa* 'to dress'. In Modern Harari this form is extinguished with a few exceptions, for instance *niba:ro:t* 'life' from *nabara* 'to live'. The modern infinitive is formed through the prefix *ma-*: *maktab* 'writing' from *kataba* 'to write'.

In Harari no active participles exist. They are replaced by relative clauses. The passive participle is formed as in North Ethiopic languages by the pattern *subur*: *šumuq* 'hidden' from *še:maqa* 'to hide'. For emphasis the second radical may be lengthened: *subbur*.

Verbs with Weak Radicals

Verbs with ʾ, *w*, *y*, *ḥ* as one of their radicals and some verbs with *b* as the first radical differ in their forms from the normal triradical verbs.

Pʾ-Verbs

The Pʾ-verbs have no type C and no *a*-causative. The causative is formed with *at-*. In the forms of the Pʾ-verbs ʾ is partly preserved, partly lost, and partly assimilated, for instance:

	Basic stem A	Basic stem B
Past	*agada* 'to tie'	*e:mada* 'to tell'
Compound nonpast	*yaʾagda:l* or *ya:gda:l*	*yi:mda:l*
Jussive	*yagad*	*ye:mdi*

	ta-Reflexive B
Past	*taʾe:mara* or *te:mara* 'to obey'
Compound nonpast	*yitte:mara:l* (< *yitʾe:mara:l*) from *taʾe:mara* or *yite:mara:l* from *te:mara*
Jussive	*yatte:mar* or *yate:mar*

IIʾ-Verbs

The IIʾ-verbs may have two or three forms in the past and in the imperative:

Past	*ṭaʾana*, *ṭa:na* (cf. Geʿez *ṣaʿana*), *ṭe:na* (cf. Geʿez *ṣaʿəna*) 'to load'
Compound nonpast	*yiṭi:na:l*
Jussive	*yaṭe:n*
Imperative	*ṭaʾan*, *ṭa:n*, *ṭe:n*

The conjugation of *ṭe:na* became identical with that of the IIy-verbs (see p. 500) and the type B of the III inf.-verbs (see p. 500).

In the type B the ʾ may be assimilated to the third radical:

Past	*se:ʾada* 'to distribute'
Compound nonpast	*yisi:ʾda:l* or *yisi:dda:l*
Jussive	*yase:ʾdi* or *yase:ddi*

In the II'-class the types C and D do not exist. In the frequentative either the second or the third radical is reduplicated: *si'a:'ada*, but *lixa:xa* from *la'axa* or *la:xa* 'to send'.

III'-Verbs

In the III'-class the ' is preserved in the past of all types and in the jussive and imperative of type A. If the ' gets lost, the class becomes identical with the III inf.-class:

	A	B	C	D
Past	*nasa'a*	*ḥe:ma'a*	*qa:ba'a*	*go:ra'a*
	'to take'	'to calumniate'	'to anoint'	'to slaughter'
Compound nonpast	*yinasa:l*	*yiḥi:ma:l*	*yiqa:ba:l*	*yigu:ra:l*
Jussive	*yansa'*	*yaḥe:m*	*yaqa:b*	*yago:r*
Imperative	*nisa'*	*ḥe:m*	*qa:b*	*go:r*

Verbs with ḥ

The verbs with ḥ do not differ much from the strong verbs. In some forms an *i* before ḥ becomes *a*, for instance *yaḥadga:l* for **yiḥagda:l* 'he abandons' or *laḥas!* for **liḥas!* 'lick!'.

Iw-Verbs

Most forms of the Iw-class are regular. In the nonpast there is a contracted form *yu:qṭa:l* besides *yiwaqṭa:l* from *waqaṭa* 'to crash'. The verb *waṭa'a* 'to go out' has an irregular palatalization in the nonpast:

Past	*waṭa'a*
Compound nonpast	*yu:ča:l*
Jussive	*yawṭa'*
Imperative	*wiṭa'*

While some causatives build regular forms, in others *awa* becomes *a:*, for instance *warada* 'to go down', *a:rada* 'to put down'; *waṭa'a* 'to go out', *a:ča* 'to bring out, to take off':

Past	*a:rada*	*a:ča*
Compound nonpast	*ya:rda:l*	*ya:ča:l*
Jussive	*yu:rd*	*yu:č*
Imperative	*u:rdi*	*u:č*

From this causative a second one with *at-* can be formed:

Past	*ate:rada*
Compound nonpast	*yati:rda:l*
Jussive	*yate:rdi*
Imperative	*ate:rdi*

Iy-verbs do not exist.

IIw- and IIy-Verbs

The IIw-class is characterized in the past by an *o:* between the first and the last radical and the IIy-class by an *e:* in this position. These vowels undergo the same ablaut as the vowels of the types D and B. By this the IIw-class becomes identical with the type D of the IIIinf.-class and the IIy-class with the type B of the IIIinf.-class (and at the same time with the *ṭe:na*-form of the II⁾-class and in the nonpast, jussive and imperative with the type B of the III⁾-class). There does not exist any type difference inside the IIw- and IIy-classes.

Some IIw-verbs have an *a:* between the first and the last radical. They are mostly irregular. The most important are: *xa:na* 'to be', *ḥa:ra* 'to go' (conjugated like *xa:na*), *a:ša* 'to make', *a:qa* 'to know'. *ba:ya* 'to say' is originally not IIw, but has the etymology *bhl.

Past	*xa:na*	*a:ša*	*a:qa*	*ba:ya*
Compound nonpast	*yuxu:na:l*	*ya:ša:l*	*yu:qa:l*	*yila:l*
Jussive	*yaxni*	*yu:š*	*yu:q*	*yal*
Imperative	*xu:n*	*u:š*	*u:q*	*bal*

The irregular verb *di:ǧa* 'to come' has an *i:* in the nonpast (*yidi:ǧa:l*) and an *e:* in the jussive (*yade:ǧ*).

Verbs with a Weak Third Radical (IIIinf.)

In the IIIw- and IIIy-classes the third radical got totally lost so that there is no difference between the two anymore. The verbs form the same types and derivation classes as the strong triradical verb. It is possible to derive the forms of the verbs with a weak third radical from the *sbr*-patterns of the strong verb by the elision of *ar* if the last radical was preceded by an *a* and by the elision of *r* if the last radical was not preceded by an *a*. It only has to be noted that the euphonic *i* after a consonant cluster has to be placed anew and that the infinitive ends in *-a*. Some examples: type A *baka* 'to cry', type D *qo:ča* 'to cut', *ta*-reflexive of type B *tame:ča* 'to be suitable', *a*-causative of type A *agaña* 'to find', *a*-causative of the frequentative *afra:ra* 'to threaten':

Past	*sab(ar)a*	*baka*	*so:b(ar)a*	*qo:ča*
Compound nonpast	*yisab(r)a:l*	*yibaka:l*	*yusu:b(r)a:l*	*yuqu:ča:l*
Jussive	*yasb(ar)*	*yabki*	*yaso:b(r)i*	*yaqoč*
Imperative	*sib(ar)*	*bik*	*so:b(r)i*	*qo:č*
Infinitive	*masb(ar)*	*mabka*	*maso:b(ar)*	*maqo:ča*

Past	*tase:b(ar)a*	*tame:ča*	*asab(ar)a*	*agaña*
Compound nonpast	*yitse:b(ar)a:l*	*yitme:ča:l*	*yasaña:l*	*yagab(r)a:l*
Jussive	*yatse:b(ar)*	*yatme:č*	*yasbi(r)*	*yagñi*
Imperative	*tase:b(ar)*	*tame:č*	*asbi(r)*	*agñi*
Infinitive			*masb(ar)*	*magña*

Past	asba:b(ar)a	afra:ra
Compound nonpast	yasba:b(r)a:l	yafra:ra:l
Jussive	yasba:b(r)i	yafra:r
Imperative	asba:b(r)i	afra:r
Infinitive	masba:b(ar)	mafra:ra

The verb *ri'a* 'to see', which is at the same time II' and IIIinf., and its *a*-causative *a:ra'a* 'to show' have irregular forms:

Past	ri'a	a:ra'a
Compound nonpast	yira:l	ya:ra:l
Jussive	yar	yu:r
Imperative	ri	u:r
Infinitive	mara	mo:ra'

The paradigm shows that the causative follows the patterns of *a:ša* 'to make' (see p. 500) in the nonpast, jussive, and imperative.

I*b*- and II*b*-Verbs

The verbs *bala'a* 'to eat' and *baqa* 'to be enough' lose their first radical in the nonpast, *-iba-* becoming *-o:-* via *-iwa-*: *yo:la:l* 'he eats' and *yo:qa:l* 'it is enough'. The other I*b*-verbs are regular. An initial *b* also disappears in some forms of the verb *ba:ya* 'to say' (see p. 500).

The root *nbr* 'to live, stay, be' loses the *b* in the past: *na:ra*. The other forms are regular: *yinabra:l* 'he lives'.

Quadriradical Verbs

The basic forms of the quadriradical verbs are:

Past	gilabaṭa	'to invert'
Compound nonpast	yiglabṭa:l	
Jussive	yaglabṭi	
Imperative	gilabṭi	

There exists also a type C and a frequentative. The usual derivational classes with the prefixes *ta-*, *a-*, and *at-* can be formed, too.

Adverbs

The adverbs are formed by placing the postposition *-be* behind the adjective: *ama:n* 'good', *ama:n-be* 'well'.

Syntax

Word Order
The normal order is subject–object–predicate. The placement of adverbial expressions is quite free, but not behind the verb. The qualifier precedes the qualified: adjectives, genitives and relative clauses stand before the substantive. Inside a sentence subordinate clauses precede the main clause.

Agreement Rules
Female beings and localities are feminine and govern the feminine in verbs, if subjects, and pronouns. Adjectives express no gender. A plural noun marked as such governs the plural agreement, *ad formam*, not *ad sensum*.

Negations
In Ancient Harari a sentence was negated by placing *al-* before the past and the infinitive and *a-* before the nonpast and the jussive: *albo:xu* 'I did not enter', *alḫuro:t* 'not going', *aybaqli* 'it does not grow', *anatte:ša* 'may we not act'. *a-* developed from *al-* by assimilation and later reduction of the lengthened consonant. This is shown by the sg. 1c. in which the *l* was preserved: *alqabṭi* 'I do not miss'.

The imperative cannot be negated. It is replaced by the second person of the negated jussive.

In Modern Harari a negative main clause has always to comprise the element *-m*. In the past it is normally placed at the end of the verb: *alsabara-m*. The final *-m* can also be attached to another part of the sentence: *gi:š alzalama gir-um* (*-u-* stands to avoid a consonant cluster at the end of the word) 'if it does not rain tomorrow'.

In the nonpast the simple forms are replaced by the compound forms which consist of a combination of the simple nonpast and the auxiliary verb *ḥal* (see p. 496). The negative of *ḥal* is *e:l(-um)* (see p. 507). The *-m* is normally inserted between the main and the auxiliary verb:

Sg. 1c.	*isabrume:x*	Pl. 1c.	*nisabrume:na*
2m.	*tisabrume:x*	2c.	*tisabrume:xu*
f.	*tisabrume:š*		
3m.	*yisabrume:l*	3c.	*yisabrume:lu*
f.	*tisabrume:t*		

The *-u-* again, has the function of avoiding a cluster of three consonants. It is missing where it is not needed: *yiki:bbe:me:l* 'he does not testify against her'. As in the past, it seldom occurs that the *-m* is separated from the verb: *yi:m mullu' waqti:m yitlamade:l* 'this is not taught whole day'.

In subordinate clauses the negative jussive is used for the negative nonpast:

Sg.	1c.	*ansibar*	Pl.	1c.	*ansibar*
	2m.	*atsibar*		2c.	*atsibaru*
	f.	*atsibari*			
	3m.	*aysibar*		3c.	*aysibaru*
	f.	*atsibar*			

The paradigm shows that there is no *-m* in subordinate clauses in the nonpast. The same is true for the past: *zalsabara* 'who did not break'.

Questions

There is a special interrogative form of the nonpast in Harari. It is formed by inserting an *-i:n* between the main and the auxiliary verb: *yidi:ği:nal?* 'does he come?', *tidi:ği:naxu?* 'do you (pl.) come?' In the negative an *-i:* is placed behind the auxiliary verb: *yisabrume:li:?* 'does he not break?'. The negative shows that the interrogative morpheme is the *-i:* only while the *-n-* seems to be the same morpheme which can be found in positive copular sentences (see p. 507) and which is substituted by *-m* in negative copular sentences.

Subordination

Relative Clauses

While Ancient Harari was quite poor in methods of subordination there are many possibilities to subordinate a clause in Modern Harari. Most of these developed from relative clauses, so it is advisable to first have a look at these.

In Harari the relative clause normally precedes the qualified substantive (see p. 502). As in other Semitic languages the relationship between the relative clause and the qualified substantive has to be expressed by a pronominal suffix (or infix) attached to the relative verb (Ar. *a:ʾid*): *qabi:la:č yinabribo:za:l to:ya* 'regions in which tribes live'.

In Ancient Harari the relative element *zi-* was placed before the verb only in the past: *zisabara* 'who broke', *zalsabara* 'who did not break', while in the nonpast no relative element was placed. The relative relationship was only expressed by the position of the simple nonpast before the qualified substantive: *yima:ğ gafi-zo* 'his servant who is better'. Only negative relative clauses in the nonpast were characterized by a prefixed *z-*: *zaybarsi naga:ši* 'the king who will not be abolished'.

In Modern Harari nothing has changed for the past. In the positive nonpast the relative element is inserted between the main and the auxiliary verb: *yisabriza:l wi:ğ* 'the boy who breaks', *tisabriza:t qahat* 'the woman who breaks'. For the negative relative clause the *z-* is placed before the negative jussive: *zaysibar* 'who does not break'.

The Harari relative clause is to a high degree nominalized. It can be determined by the article: *zigadara-zo xizi:r abo:ñ masgidin ta* 'the one which is the biggest is the Xazi:r Abo:ñ Mosque'. It can stand in the accusative form: *yizarfi:w*

xitarbañ! 'keep away from me what is worst!'. The nominal plural morpheme *-a:č* can be added. This suffix may pluralize the subject or the object of the relative clause: *zimahaṭuña:č* 'those who beat (past) me', *t/čimahṭiyuza:ša:č* 'those whom you (f.) beat (present)', *kabi:rnat yibazḥibeyuza:la:č* 'those in whom the piety is much'.

In Modern Harari the relative clause is often used to form cleft sentences, a construction which did not exist in Ancient Harari. Contrary to Amharic, the Harari cleft sentence always needs a pseudo-object suffix pronoun. This pronoun is added also to a passive verb and is always a sg. 3m., independent from the subject of the sentence: *mačin ta liǧi zitmaḥaṭe:w?* 'when was it that the boy was beaten = when was the boy beaten?', *mačin ta zitmaḥlaṭša?* 'when were you (f.) beaten?'.

The relative clause can be placed in a circumstantial accusative (Ar. *ḥa:l*) expressing a circumstantial clause (English 'while'): *yisakza:l di:ǧa* 'he came while running', lit. 'as a running one'.

Conjunctional Clauses

Normally Harari indicates subordination by a conjunction. Most conjunctions follow the verb of the subordinate clause, some precede it. The conjunctions placed behind the verb often developed from nouns with a preceding relative clause.

sa'a

sa'a (or as enclitic *-sa*) is an Arabic loanword originally meaning 'hour' (Ar. *sa:ʿa*). Preceded by the relative past, it forms temporal and conditional clauses: *ǧa:mi'a zitqo:fala sa'a laǧna atḥe:baruñ* 'when the university was closed the board asked me', *bari ǧugal ziqo:rarxi-sa me:taqxa-dale ko'ot gidi:r ga:ra:č ḥalu* 'if you approach the wall of the gates, there are two big buildings, one on either side of you'. This construction did not exist in Ancient Harari.

kut(a)

-kut(a) preceded by a relative clause forms comparative clauses. Though *-kut* is a derivation of the comparative element *-ku*, it must have functioned as a noun on its way to becoming a conjunction, because it can be followed by an article or can be placed in an accusative: *arafa yidgadarbaza:l-kutaw ḥe:ǧna gira* 'if we consider how 'Arafa is celebrated', literally 'the manner in which 'Arafa is celebrated'.

-kut also forms final or 'that'-clauses. In this case it is preceded by the simple nonpast: *waldi yibazḥile:-kut tixašat* 'she wants that the children become more to her advantage'. This simple nonpast must be interpreted as a relative clause, too, being a relic of Ancient Harari where relative clauses in the nonpast lack the relative element. The correctness of this interpretation is shown by negative clauses in which the *z-* already occurred in Ancient Harari (see p. 503) *ko'ot muǧtama'a:č aḥadnat-ziyu zayṭibaq-kuta xa:na* 'it happened that the unity of the two societies did not become strong'.

qe:ssi

qe:ssi is a noun meaning 'quantity'. Preceded by a simple nonpast, which again must be interpreted as an ancient relative clause, it forms temporal clauses, meaning 'as long as', 'until': *i:d yu:č̣ qe:ssi yinabra:lu* 'they remain till the celebration is finished'.

-be

Preceded by a relative clause, the postposition *-be* forms different subordinate clauses corresponding to the different meanings of the postposition: *zina:re:w-be ma:ǧe:wi:?* 'is he better than he was before?', *ziqara'e:w-be hafaze:w* 'because he read it, he knows it by heart', *zalzalama-be ga:r igaba:x* 'I go home before it rains'.

    -be preceded by the simple nonpast and followed by the verb of existence *hal* forms an aspect ('just doing, doing right now'): *sina:n-zo:w yabaslo:-be halu* 'they are just inquiring about the matter'.

-le

-le is identical with the postposition *-le*. In Harari it forms causal ('because, since') and final clauses ('to'). If it is causal it is preceded by a relative clause: *zanasa qi:ma-le zatwa:xabeyu-le garab yisṭohol* 'they give him a share because he helped them to buy at a lower price'. The final *-le* is preceded by the simple nonpast: *yifatho:-le waṭṭu* 'they went out to unload it'. The simple past again, may be interpreted as an old relative clause. The final *-le* clause already existed in Ancient Harari and was taken over into modern times unchanged. The causal *-le*-clause came into existence only in Modern Harari. So the relative clause was constructed the modern way.

gir

gir forms conditional clauses ('if'). Originally, it was a Cushitic loanword meaning 'time'. There might have happened a similar development to that of the more modern *sa'a* (see p. 504), forming temporal clauses first and then conditional clauses (cf. German *wenn*). In Modern Harari *gir* is preceded by the past, while in Ancient Harari there occurred also the simple nonpast: *qa:t tixaš gir wari:qa bala!* 'if you want *qa:t* call Wari:qa!'. This again can be interpreted as a relative clause. Whether or not this is also true for the modern past, is not clear. Here a *zi-* should be expected which does not occur: *qala če:xala gir zingo:-be yixadnahal* 'if he builds an upper floor he covers it with corrugated iron'.

-ma:m

-ma:m is preceded by the jussive and forms concessive clauses ('though'). It cannot be interpreted as a relative clause. Perhaps, *-ma:m* is a combination of *-ma* (see p. 506) and the adversative *-m*: 'I go out though it rains', lit. 'I go out and may it but rain'. An example for a *-ma:m*-clause is: *hilqi-zo yazbah-ma:m yi masgida:č̣ fiz-be ṭiṭṭi:tin ta* 'though their number is large these mosques are very small'.

im-

im- followed by the negative simple nonpast forms a temporal clause with the meaning 'before': *ḥara:s imatwiṭa' u:ga tu:čume:t* 'before she is not out of her period as a woman in childbed she will not go into the street'. The underlying preposition *im-* (etymologically = Ge'ez *ǝm(na)*) was still very common in Ancient Harari, but has been lost in Modern Harari. Also, the conjunctional function seems to be extinguished in Modern Harari now. The most recent examples I know originate from the early 1960s.

is-

is- followed by the past, forms temporal clauses of different meanings like 'while', 'as long as', 'after', 'since': *maki:na safi ta:gir maki:na-zo la:y-be isa:l yalqa:lqa:l* 'but the tailor chews *qa:t* while he is at his sewing machine'. In older Modern Harari (first half of this century) the *(i)s* could also be inserted between the main and the auxiliary verb of the compound nonpast: *yilsa:l* 'while he says'. This construction, however, is now totally replaced by the synonym *-za:l* (see p. 503).

kil-

kil- followed by the past forms temporal clauses, too: *dukka:n-le dukka:n kil-wa:lala sadaqa yisa:mta:l* 'while he goes from shop to shop he collects alms'. The connection with the Ancient Harari preposition *kal-* 'like' and the Modern Harari preposition *kil-* 'toward' is not clear.

-ma

In Harari the suffix *-ma* is used to express almost the same meanings as the gerund in the other languages, so *-ma* has to be located between coordination and subordination: *a:y tidalgi-ma walda:č-ze:w tali:qat* 'while working, the mother brought up her children', *inči sabaru-ma ila ga:r adi:ǧo* 'after he had split the wood, he brought it to the house', *yidge:b-ma a:w-zo:-bah aḥada ko'ot yilume:l* 'he sits down and does not agree with his father'. There are special rules of agreement between the main verb and the preceding *-ma*-verb. As the first example shows, for instance, the auxiliary verb of the compound nonpast is not repeated before *-ma*.

Infinitive

The infinitive can be used to replace several kinds of subordinate clauses, corresponding either to the case in which the infinitive stands or to the postposition which follows: *ziña:t šaḥan ga:r gambari saṭra:w mabo:'a-ze:w yanqu:rriza:l* 'while he waits that the beams of dawn enter the cracks at the door of the house', *maga:la ba:yti-le nitna:fa' baḥana* 'we use it in order to say "market"', *ge:y usu' isla:m muxna-zo:-be arabi-be baǧi:ḥ kilma:č warasa* 'because the Harari are Muslims they inherited many words from Arabic'.

-nat

The suffix *-nat* formed abstracts in Ancient Harari: *nabi* 'prophet', *nabinat* 'prophethood'. In Modern Harari *-nat* got a second function. It can be added to a relative clause: *aḥmad kiz yi:dza:lnatuw a:mnume:x* 'I do not believe that Aḥmad tells a lie', literally 'I do not believe in Aḥmad's one-who-tells-a-lie-ness'.

Copular and Possessive Expressions

ta

The Harari copular verb is *ta*. It is conjugated by adding the object suffixes (see p. 490):

Sg. 1c.	*tañ*	Pl. 1c.	*tana*
2m.	*tax*	2c.	*taxu*
f.	*taš*		
3m.	*ta*	3c.	*tayu*
f.	*te*		

In the positive main clause the copular sentence includes the suffix *-n*. Theoretically it may be placed behind every word of the sentence, but normally it is attached to the predicative expression which as a rule, precedes the copular verb: *titxita:tala:za:t indo:čin te* 'those who supervise it are the women' (*-i-* is inserted if the word before *-n* ends in a consonant), *yitta:waqa:za:l ga:r ḥawa:z sum-be:n ta* 'it is by the family names that they know each other'.

In subordinate clauses the *-n* is missing: *tumtu zitayu qabi:la:č* 'tribes which are blacksmiths'.

The copular verb is negated by *al-*. Instead of *-n* the sentence contains a *-m* (see p. 502) *zarʾi baǧi:ḥum alta* 'the grain is not much'. Like the *-n* the *-m* is missing in subordinate clauses.

In the past *ta* is substituted by *na:ra*, also preceded by *-n* in positive main clause: *imtiḥa:n liḥimin na:ra* 'the examination was easy'. The negative of the past is *anna:ra* (< *alna:ra*) accompanied by *-m: yi:-kutum anna:ra* 'it was not so'. In subordinate clauses *-n* and *-m* again are missing.

ḥal

The verb of existence is *ḥal* 'there is'. It is conjugated like a past though the meaning is that of the nonpast. The past is expressed by *na:ra*, which, when substituting *ḥal*, has no *-n* in the sentence: *gidi:r katamaya:č yida:bliza:lu u:ga:č ḥalu* 'there are roads which connect the big towns', *baǧi:ḥ ge:ya:č na:ru* 'there were many (places named) *ge:y*'.

The negative of *ḥal* is *e:l* 'there is not': *zalḥa:re:w bandar e:lum* 'there is no town which he did not visit' (in this sentence the *-m* is attached to *e:l* and not to the predicate noun). *e:l* can be a combination of *i:-* (the Geʿez negation) and *ḥal*.

By adding the object suffixes *ḥal* becomes the possessive expression ('to

have'): *a:n gidi:r sandu:q ḥalañ* 'I have a big box', *awwal-be zina:re:w-kut-be* 'as he had it in former times', *e:lañum* 'I have not'.

The object suffixes can also be attached together with the preposition *-b-*. In this case *ḥalba* has three meanings: 'there is in him', 'it is with him = he has', 'it is to his disadvantage = he has to, he must'.

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22 The Silte Group (East Gurage)

Ernst-August Gutt

The Silte group comprises the following major varieties: Silte, Inneqor (Azarnat), Wolane forming a dialect cluster and the more divergent Zway. Most of the data here are from Silte, the few data for Zway, added by the editor, come from Leslau 1992.

According to the 1984 census, about 500,000 people usually speak Silte in their homes. Silte and Inneqor are adjacent, situated on the Rift Valley escarpment in Ethiopia. Wolane and Zway are geographically separated from the rest and from each other (Wolane to the north-west, Zway to the east of the other two).

Most of the East Gurage people are Muslims, with noticeable elements of an animistic religion. There are also enclaves of Ethiopian Orthodox Christians. A division between highland and lowland population is economically relevant: the highlanders' main crop is ensete, the false banana plant (*ensete edulis*); in the lowlands: grain and cattle raising. A significant number of Siltes are traders, spread around the towns of Ethiopia. The important cash crops are red pepper and qat, a plant the leaves of which contain a stimulant.

Dialectal variation is mostly phonological, involving the occurrence of the glides *h*, *ʾ*, *y*, *w*, mostly in word-initial position, though there is also some morphological variation. In the southern areas of the Silte group there is a tendency toward various kinds of glottalization, probably under the influence of neighboring Hadiya. Thus *p̣* occurs in place of *b* in geminate consonants or clusters: *haṗpi* 'then' for *abbi*, and *harp̣añño* 'hare' for *arbañño*. Geminates may be glottalized: *haʾna* 'that (acc.)' corresponding to *anna*, *balʾla* 'much' corresponding to *balla*. In Wolane, *ʾ* and *q* appear to be interchangeable. Zway appears to show more substantial differences from the other dialects. A remarkable feature in the Silte group (except apparently for Wolane) is the contrastive vowel length.

Phonology

Consonants
Most varieties of the Silte group have basically twenty-five consonants *ṗ, t, č, k,
b, d, j, g, ṭ, č̣, q, f, s, š, z, ž, m, n, ñ, l, r, w, y, h, ʾ*. All of these, except *h* and *ʾ*, can
occur geminated. Wolane is reported to have a labialized set of velar stops plus
h^w. The change *q > ʾ* is attested in some dialects.

Minimal pairs based on gemination:

bala	'he ate'	*balla*	'much'
gawo	'forest'	*gawwa*	'foolish'
daama	'bronze colored cattle'	*daamma*	'wild honey'

Vowels
With the apparent exception of Wolane, the Silte group vowel system falls into
two sets of five short and five long vowels: *i, e, a, o, u* and *ii, ee, aa, oo, uu*. While
there can also be a quality difference between *i* (which can be centralized [ə]) and
ii as well as between *a* (which can be raised to [ä]) and *aa*, the length distinction
affects all five vowel pairs, and hence seems to be the relevant contrast.

Examples for contrastive vowel length:

sir	'root'	*siir*	'tough leather'
keša	'container for red pepper'	*beesa*	'kind of coin'
bala	'he ate'	*baala*	'he said'
goro	'season'	*gooro*	'hunger'
mut	'death'	*muut*	'thing(s)'

All short vowels may appear optionally voiceless before pause. After the bilabial
glide *w* the contrast between *i* and *u* and between *a* and *o* is neutralized.

Assimilation
Alveolar stops and affricates totally assimilate to a following coronal obstruent.
With the paucal suffix *-ča* added to nouns and with the passive prefix *t-* or the sg.
3f. suffix *-t* added to verbs note: *abot* 'father' *abočča* 'fathers'; *baad* 'country',
baačča 'countries'; *čaala* 'know', *yaččaala* 'that which was known'; *aytisačaan*
'that which will not be drunk' (= undrinkable); *heeda* 'he went', *heett* 'she went'.

Partial regressive assimilation can optionally occur when a glottalized and a
non-glottalized consonant are juxtaposed: *iṭqeebalaan* 'he will receive' (from *i-t-
qeebalaan*); *ruuq* 'far', *ruukča*.

Morphology

Pronouns
Independent pronouns (Zway, when divergent, in braces):

Sg. 1	*ihe* {äya} 'I'	Pl. 1	*iña* {ǝñña}	'we'
2m.	*ata* 'you (m.)'	2	*atum*	'you (pl.)'
f.	*aš* {ači} 'you (f.)'			
3m.	*uha* {ut} 'he'	3	*uhnu* {ǝnom}	'they'
f.	*iša* {it} 'she'			

Complement pronoun suffixes:

Sg. 1	*-ñ*	Pl. 1	*-na*
2m.	*-ka* after C, *-ha* elsewhere	2	*-kum* after C, *-mmu* elsewhere
f.	*-š*		
3m.	*-ii* after C, *-y* elsewhere	3	*-iimmu* after C, or *i*
f.	*-eet*		*-ymu* after V other than *i*

Possessive pronoun suffixes:

Sg. 1	*-ee*	Pl. 1	*-na*
2m.	*-aa/aaha*	2	*-aammu*
f.	*-aaš*		
3m.	*-ka*	3	*-niimmu*
f.	*-ša*		

Benefactive and detrimental pronoun suffixes (see p. 525):

	Benefactive	Detrimental
Sg. 1	*-ññ*	*-biñ*
2m.	*-nka*	*-biha*
f.	*-nš*	*-biš*
3m.	*-nnii*	*-bii*
f.	*-nneet*	*-beet*
Pl. 1	*-nna*	*-bina*
2	*-nkum*	*-bimmu*
3	*-nniimmu*	*-biim*

bi- has the allomorphs: *-bu* following *u*; *-b* before vowel, and *-bi* elsewhere.

The suffix *-nn* has the following allomorphs: *-ñ* before *ñ*, *n* before other consonants, and *-nn* elsewhere.

Nouns

Morphologically, nouns have the following general structure:

(Prefix) (Distributive) STEM (Acc. or Vocative) (Particle) (Copula) (Possessive Suffix) (Article)

The initial position can be taken by any preposition (*ba-*, *la-*, *ta-* see p. 514) or the genitive marker *ya-*. The latter is elided when there is a preposition: *yasaalo gaar* 'Salo's house', *basaalo gaar* 'in Salo's house'. The distributive marker: *-sa-* 'each' may occur, preceded by the genitive marker (or a preposition). With a distributive marker, the noun must also have a possessive suffix: *sab ya-sa-gee-ka heeda* 'the people went each one to their home'.

Following the stem, either the accusative or vocative suffix can occur: *waaj* 'elder brother', *waaj-o* '(hey-m.), elder brother'; *gaar-a gaba* 'he entered the house (acc.)'.

The next position can optionally be filled by either of the pragmatic particles *-w* 'how about, as to' or *-m* 'also': *raanji-w* 'as to a thief'; *raanjim* 'a thief also', or a copula *raanji-n* 'he is a thief'.

The copula can be followed by a possessive suffix: *čuuloo-n-ša* 'it is her child' [child-is-hers]. The possessive suffix can, of course, occur without the copula: *čuuloša* 'her child'.

In the final position the definite article *-ii* for masculine or *-te* for feminine can be found: *inṭ* 'tree', *inṭii* 'the tree'; *garajja* 'girl', *garajjate* 'the girl'. If a noun has the copula plus a possessive and/or a definite article, the copula always precedes these suffixes. Here are examples of combinations of several of these suffixes:

aaddee-na-w-ka 'as to his mother (acc.)' [mother-acc.-as-to-his]
likki-n-ee 'It is my measure/size' [measure-copula-my]

Definiteness, Number and Gender

These three categories are interrelated in the Silte group. For example, the suffix *-te* can mark definiteness with feminine gender and singular number.

Gender

Gender is mostly determined naturally, not grammatically. Thus humans and animals are given the gender according to their sex. A comparatively small number of inanimate nouns are specified for gender; thus *wari* 'moon' is usually given masculine gender and *ayr* 'sun' feminine, hence *warii* 'the moon', *ayrite* 'the sun'. Similarly, trees are usually treated as feminine.

Number

Semantically, a three-way distinction exists between singular, paucal, and plural. However, morphologically only the paucal is marked – the other two categories are unmarked. Thus, while *uunča* refers to a small number of stones (paucal), *uun* may refer either to one or a large number of stones. The context disambiguates

such unmarked expressions.

There are two basic morphological types of paucal formation for adjectives and nouns: (1) suffixation of *-ča* (*-čča* after a consonant cluster or a geminate); word-final short vowels are elided before the suffix:

Suffixation of *-ča:*
čaaf   'leaf'   *čaafča*
bolaale   'long trousers'   *bolaalča*

or (2), for many nouns mostly ending in a short vowel, reduplication of the last consonant with insertion of the vowel *aa* and replacement of the original final vowel by *o*: *alaga* 'stranger', *alagaago*; *amoole* 'salt bar', *amoolaalo*. When the last consonant is geminate, only the degeminated, single consonant is repeated: *burre* 'big tin/can', *burraaro*.

Most words with reduplicated paucal allow further suffixation as well: *bala* 'calamity' *balaalča*; *bošo* 'young ensete plant' *bošaašča*.

Definiteness
Definite articles mark gender, *-ii* (*-y* after vowel) for masculine, and *-te* for feminine. However, these two articles can fulfill further functions. The masculine *-ii* can signal a large number or collective of items, regardless of their gender, while the feminine *-te* can refer to one item (singulative) and/or to a small specimen.

For example, in addition to denoting definiteness, the expression *gaarte* 'the (f.) house' implies a single house considered to be small. By contrast, the expression *gaarii* 'the (m.) house' is neutral as to size, and it may refer, as an alternative to its singular meaning, to a collective or large number of houses. The collective use overrides natural gender: *indaaččii maṭa* 'the women have come (sg. m.)'.

There is no indefinite article. However, the indefinite pronoun *add* (pl. *addadd*) is often used to introduce entities not assumed to be contextually known.

The definite article is not used for the generic statements: *baqlo allaha sadabeetaane, daraqtaat dalša* 'Allah cursed the mule and its womb has become barren'. Here *baqlo* 'mule', with no article, refers not to a particular mule, but to the species.

Case
Silte uses four prepositions and two suffixes to mark case relations on nominal phrases. The form of nominals that occurs in subject position (nominative) is morphologically unmarked. The following table gives some indication of typical correlations between these markers, case and semantic roles. (The question of whether the prefixes are prepositional or case markers is beyond the scope of this description.)

Prepositions

Marker	Gloss	"Typical" semantic role
ya-	'of'	genitive: possessor
la-	'to'	dative: experiencer, goal, location, benefactive, theme (see p. 526)
ba-	'in, with'	instrument, source, location, detrimental
ta-	'with, than'	comitative, point of comparison (origin)

Suffixes

	Function
-a	accusative theme, range
-o ~ -(a)w/-(a)y (m./f.)	vocative addressee (special vocative pronouns: *koo/ tee* 'hey, you (m./f. singular or plural)'

The **genitive** modifies a noun; it can indicate possession, substance of which something is made (*ya-saar gaar* 'a thatch roofed [= of-grass] house'), or some other relation (*ya-taačeena marka* 'yesterday's matter'.

The **accusative** is used for definite objects, indefinite objects have no overt case marker, though some dialects use the accusative marker even here. It has the following allophones: *-n(a)* after proper names, pronouns and with nouns with possessing suffixes that begin with a long vowel (*išaana* 'her (acc.)'), *-e* after palatal consonants, Ø after vowel, *-a* elsewhere. It may further be used adverbially, usually indicating a range of time or location or some more abstract relation. See p. 525.

Benefactive is for the beneficiary, also with inanimate nouns: *la-gaar-ii qurat wagga yaabeezu-nniy-aan* ('to-house-the roof spikes they-make-for-him-aux.') 'one prepares spikes for the roof of the house'. **Detrimental** (= instrumental) has the opposite meaning: *gaar-a-y oonṭu-buy* 'house-acc.-the they-closed-to-his-detriment'.

Morphological Properties and Processes with Nouns
Common morphophonemic changes with suffixes are the following. Word-final vowels are dropped directly before a plural suffix. Word-final vowels are lengthened immediately preceding the accusative suffix *-na: maaṭa, maaṭaana* 'younger brother$_{acc.}$); or the pragmatic markers *-m* and *-w: addeñña, adeññaam* 'first, first also'; or the masculine definite article: *bučo, bučooy* 'dog, the dog'.

Adjectives
Basic adjectives: *fayya* 'good', *booz* 'bad', *yaroore* 'big', *qall* 'small'. Derived adjectives: (none of the derivations is productive; they are all lexically determined).

Denominal adjectives in *-añña*:

gutt	'middle'	*guttañña*	'average'

Denominal adjectives in *-atañña*:

kasb	'work'	*kasbatañña*	'industrious'

Denominal adjectives in *-aančo*:

bitar	'marriage'	*bitaraanco*	'newly-wed'

Denominal adjectives in *-a(a)m(a):*

maniija 'pride'	*maniijaam*	'proud'

Denominal adjectives in *-a(a)taam* (denoting ampleness):

ayb	'milk'	*aybaataam*	'giving much milk'

The noun of agent of verbs (see below) has often an adjectival sense: *qoommara* 'be strong', *qoommaari* 'strong'; *qañe* 'to envy', *qañiilo* 'envious'.

There are no special adjectival forms for comparison; if the point of comparison is explicit, it is marked by *ta-* plus the suffix *-ko* 'like':

uha ta-ihee-ko maniijaam
'He is prouder than I.'
ittate laam taattitate-ko aybaataamint
'This cow gives more milk than that one.'

Stative verbs with *ta-* often express comparison:

yahe gaar ta-atay ifeettaan
'My house is bigger than yours.'
feeq ta-laam yaansaan
'A goat is smaller than a cow.'

Deictics

Basic forms: *itta* 'this' and *atta* 'that' to which the definite article (m. or f.) is added: *ittaay, ittate* 'this'; *attaay, attate* 'that'. So far no meaning difference has been noted.

	'This'			'That'		
		(def.)	(def. f.)		(def.)	(def. f.)
Nom.	*itta*	*ittaay*	*ittate*	*atta*	*attaay*	*attate*
Gen.	*yiitta*	*yiittaay*	*yiittate*	*yaatta*	*yaattaay*	*yaattate*
Dat.	*illii*	*illitaay*	*illitate*	*allii*	*allitaay*	*allitate*
Acc.	*inna*	*innay*	*innate*	*anna*	*annay*	*annate*
Abl.	*ittii*	*ittitaay*	*ittitate*	*attii*	*attitaay*	*attitate*
Instr.	*ibbii*	*ibbitaay*	*ibbitate*	*abbii*	*abbitaay*	*abbitate*

There are parallel variants with *iyii* and *ayii*. Sometimes prepositions are added to the inflected forms, e.g. *biibbi* for **ba-ibbi*; **la-alli* becomes *laalli*; **ta-itti* be-

comes *tiittii*.

Plurals (paucals) are formed by adding *sur*: *ii sur, ittaay sur* 'these'; *ayii sur, attaay sur* 'those' etc.

Numerals

Cardinal Numbers

1	*add*	10	*assir*	40	*arba*
2	*oošt*	11	*asradd*	50	*amsa*
3	*šeešt*	12	*asroošt*	60	*sidsa*
4	*araatt*	13	*asrašeešt*	70	*siba*
5	*ammist*	17	*asrasaabt*	80	*sumna*
6	*siddist*	20	*kuya*	90	*ziṭana*
7	*saabt*	21	*kuya add*	100	*baqqil*
8	*summut*	25	*kuya ammist*	200	*oošt baqqil*
9	*ziiṭṭaññe*	30	*saasa*	1,000	*kim*

Ordinal Numbers

These are formed from cardinal numbers by adding the suffix *-lañña*: *addilañña* 'first', *ooštilañña* 'second', etc.

Verbs

Root Structure and Stem Formation

Overall, the description of verb roots requires reference to the following parameters:

- number of root consonants
- gemination pattern of root consonants
- nature of thematic (root) vowel
- nature of root final radical
- presence of a special nasal element

Roots can differ according to whether the penultimate root consonant is geminated or not:

biconsonantal verbs:	*gaba*	'enter'
	bada	'take'
triconsonantal verbs:	*harata*	'take a mouthful'
	rawwaṭa	'run'
quadriconsonantal verbs:	*dinabaṭa*	'be surprised'
	sinaṭṭala	'develop oneself, be trained'

However, for a significant number of verbs one root vowel, the "thematic vowel," needs to be specified as well. Thematic vowels can be *ee, aa, oo,* and *o*:

biconsonantal verbs with thematic vowel:	*qeera*	'watch, wait'
	goora	'slaughter'
triconsonantal verbs with thematic vowel:	*maagada*	'kindle'
	eewada	'tell'
	ṭoollaba	'beg'

The final radical can be of four kinds: (1) ending in a consonant only; (2) ending in consonant followed by *a*; (3) ending in a non-palatal consonant with following *a* palatalized to *e*; (4) ending in a palatal consonant with following *a* palatalized to *e*. The nature of the final radical can best be seen in the imperative sg. m.; palatal consonants are depalatalized preceding back vowels, so the underlying non-palatal consonant appears, for example, preceding the infinitival ending *-oot:*

	consonant only:	*waaba*	*waab*	'give!'
4	consonant plus *a*:	*qeera*	*qiira*	'watch!'
5	non-palatal consonant plus *e*:	*noze*	*nuz*	'be angry!'
6	palatal consonant plus *e*:	*sače*	*sič sikoot*	'drink!'

The nasal element appears in bi- and triradical verbs: *anže* 'see', *eenza* 'hold', *oonṭe* 'close', *andara* 'spend the night', *eenqafa* 'embrace'. All but one of these verbs begin with a vowel. The one verb that begins with a consonant is: *soonče* 'smell good'. The nasal does not count as a radical consonant. Thus *anže* 'see' inflects like a biconsonantal verb, and *andara* 'spend the night' like a triconsonantal one.

Derivation Classes
Derived stems are primarily viewed from a morphological point of view, since the semantic characteristics tend to overlap and are unpredictable at times. The derivational processes attested as below:

1 Prefixation of *at-* plus change of the first vowel *a* to *ee*; this most often has a **causative** meaning.

faqa	'hit'	*atfeeqa*	'cause to hit'
jammara	'begin'	*ajjeemmara*	'cause to begin'
dinabaṭa	'be frightened'	*addineebaṭa*	'make frightened'
foge	'inflate'	*atfooge*	'cause to inflate'
zaače	'herd'	*azzaače*	'cause to herd'
eeffe	'cover'	*ateeffe*	'cause to cover'

This is the only derivation process that can be applied to virtually any verb, basic or derived itself.

2   Prefixation of *a*- to intransitive verbs; this tends to result in a **transitive** meaning, but in many cases the outcome is not predictable:

raaje	'be old'	*araaje*	'make old'
wakaba	'buy'	*awakaba*	'sell'
gaba	'enter'	*agaba*	'place inside; marry'

3   Prefixation of *ta*-; in most cases this **passivizes** underived transitive verbs:

čeeñe	'give birth'	*tačeeñe*	'be born'
waaba	'give'	*taaba*	'be given'
eewada	'tell'	*teewada*	'be told'

4   **Lengthening** of thematic *a* to *aa*; this is usually accompanied by the prefixation of *ta*-. Semantically it often indicates a reciprocal, iterative or very intensive process. With the prefix replaced by *at*-, a causative meaning obtains:

faje	'finish'	*rawwaṭa*	'run'
tafaaje	'destroy each other'	*taraawaṭa*	'to run here and there'
atfaaje	'cause people to destroy each other'	*atraawaṭa*	'make run here and there'

5   There are at least two distinct kinds of **reduplicative** formations: type 1 involves the first root consonant, type 2 the second root consonant (only the simple consonant is reduplicated, not a geminate). Semantically, reduplication often indicates multiple actions: either doing something repeatedly or doing something to many objects, people, etc. For a number of verbs it indicates that the activity is done "a little," not completely or properly.

Type 1 reduplication ($C_1VC_2(V) \rightarrow C_1aaC_1VC_2(V)$) (only biconsonantal):

laaha	'send'	*laalaaha*	'send many people, or something to many places'
qeera	'wait'	*qaaqeera*	'watch repeatedly, many times'
čeeñe	'give birth'	*čaačeeñe*	'give birth many times'

Type 2 reduplication ($(C_1)VC_2(V) \rightarrow (C_1)iC_2aaC_2(V)$):

faje	'finish'	*fijaaje*	'finish many things'
aje	'hit'	*ijaaje*	'hit many times, in many places, many people'
eema	'slander'	*imaama*	'slander many times'
eenza	'hold'	*tiinzaaza*	'hold each other'
qatala	'kill'	*qitaatala*	'kill many animals, people'
jammara	'begin'	*jimaammara*	'to start a little bit'

Some verbs employ both types of reduplication, with different meanings: *foge* 'inflate'; type 1 reduplication: *atfaafooge* 'cause to be swollen in many places'; type 2 reduplication: *fugaage* (*fogaage*) 'inflate many times'.

With both types the original thematic vowel may also be lengthened: *kinabala* 'return (v.t.)'; *kinaanaabala* 'turn again and again, turn over many times'; *foge* 'inflate' *atfaafooge* 'cause to be swollen in many places'.

The reduplicated verb stems can have one or more of the derivations that a basic verb can have: causative in *at-*, passive in *ta-*, and, much more rarely, transitive with *a-*:

soonče 'smell'		
Reduplicated	Transitive	Causative
saasoonče	*asaasoonče*	*assaasoonče*
'many things give a	'smell	'cause each
smell, something gives	different	other to
a smell many times'	things'	smell something'
jammara 'begin'		
Reduplicated	Causative	Passive
jimaammara	*ajjimaammara*	*tajmaammara*
'start a	'cause to be started	'be started
little bit'	a little bit'	a little bit'

Silte has many **compound verbs** consisting of an uninflected morpheme and an inflected helping verb like *baala* 'say', *mañe* 'build' (mainly intransitive), *aše/añe* 'do, make' (mainly transitive), e.g. *buube baala* 'flee in fright', *buube aše* 'cause to flee in fright'.

Aspect and Tense
Aspect is indicated by the internal inflection of the verb stem; tense is marked by the conjugational affixes used and/or by auxiliaries. Each verb has three stem forms: perfective, imperfective and a third one not marked for aspect, the non-aspectual stem. The perfective stem is used to form simple past, present perfect and past perfect tenses, the imperfective stem for the formation of the present/future and past-imperfective tenses; the non-aspectual stem serves for the infinitive and imperative.

Perfective stem *masak-*

Simple past	*masaka*	'he guided'
Present perfect	*masakaan*	'he has guided'
Pluperfect	*masaka naar*	'he had guided'

Imperfective stem *mask-*

Present/future	*i-maskaan*	'he guides/will guide'
Continuous past	*i-mask naar*	'he was guiding'

Non-aspectual stem *m(i)sak-*

Imperative/jussive	*misak*	'guide! (sg. 2m.)'
	yamsak	'let him guide!'
Infinitive	*misakoot*	'to guide'

The stem formation makes use of two distinct morphological means: changes in the consonant–vowel pattern of the root and raising of the thematic vowel. Thus the verbs can be divided into two broad classes:

Class 1: All verbs with thematic *a*; taking the perfective stem as basic, the other two are derived by omitting the first and second vowel respectively:

Perfective	Imperfective	Non-aspectual
(C)CVC(VC)	(C)CVC(C)	CC(VC)
		CCC(C)
sač-e 'drink'	*i-sač-aan*	*sič*
bataka 'pull out'	*i-batk-aan*	*bitak*
sinabata 'stay some days'	*i-snabt-aan*	*sinbit*

(Note the epenthetical *i*.)

Class 2: All verbs with a thematic vowel other than *a*. Thematic *e* is raised to *i*, *o* to *u* in the non-aspectual stem:

| *jeeje* 'reach' | *i-jeej-aan* | *jiij* |
| *noze* 'be angry' | *i-noz-aan* | *nuz* |

Raising verbs with thematic *aa* are exceptional in that the *aa* is raised to *ii* in the imperfective aspect (not all such verbs undergo raising, e.g. *raaje* 'be old' *i-raaj-aan*):

| *čaama* 'taste good' | *i-čiim-aan* | *čaam* |
| *laaha* 'send' | *i-liih-aan* | *laah* |

Class 2 verbs with more than two radicals omit the vowel of the last radical in both the imperfective and non-aspectual stem forms:

| *šeebala* 'dance' | *i-šeebl-aan* | *šiibl* |
| *tooqasa* 'beg' | *i-tooks-aan* | *tuuks* |

Conjugation

The inflectional structure of verbs in the Silte group is as follows:

(Negative) (Person) STEM (Person) (Ben./Detr.) (CPS) (Aux.)

In forms based on the imperfective and non-aspectual stems, both prefixes and suffixes mark the person.

As elsewhere in Ethio-Semitic, sentence constituents other than the subject may be marked in the morphology of the verb: benefactive (ben.), detrimental/instrumental (detr.) and complement person suffix (cps), see above. The complement person suffixes can occur without either the benefactive or detrimental/instrumental markers, but these last two categories require the presence of the person markers.

The present tense auxiliary (-*na* in Zway):

Sg. 1	-*aahu/-aaw*	Pl. 1	-*aan*
2m.	-*aaha*	2	-*aammu*
f.	-*aaš*		
3m.	-*aan*	3	-*aan*
f.	-*aat*	Impers.	-*aan*

The past auxiliary is *naar-* (past tense form of verb of existence).

The category "impersonal" is used to indicate what some unspecified group of individuals or people in general do. It may be glossed as 'people', 'one', 'they'.

Perfective Stem Conjugations
Added to the perfective stem these mark the subject in the simple past:

Sg. 1	-*ku* after C, -*hu/w* elsewhere	Pl. 1	-*na*
2m.	-*ka* after C, -*ha/aa* elsewhere	2	-*kumu* after C,
f.	-*š* word finally, -*ši* elsewhere		-*mmu* elsewhere
3m.	-*e* in palatal verbs, -*a* elsewhere	3	-*u*
f.	-*ta* preceding an object suffix,	Impers.	-*i*
	-*t* elsewhere		

Simple past
Simple past of a C-verb 'I guided', etc.:

	Masculine	Feminine	Plural	Impersonal ('People/one guided')
1	*masakku*		*masakna*	
2	*masakka*	*masakš*	*masakkumu*	
3	*masaka*	*masakt*	*masaku*	*masaki*

Simple past of palatal verbs 'I wanted', etc.:

1	*kašeehu/w*		*kašeena*	
2	*kašeeha*	*kašeeš*	*kašeemmu*	
3	*kaše*	*kašeet*	*kasu*	*kasi*

Simple past of Ca-verbs:

1		*balaahu/w*	*balaana*	
2	*balaaha*	*balaaš*	*balaammu*	
3	*bala*	*balaat*	*balu*	*bali*

Present perfect: The perfective stem plus the present tense auxiliary (with *-nu* or *-mma* in Zway).
'I have guided', etc.

1		*masakkoo*	*masaknaan*	
2	*masakkaa*	*masakšeeš*	*masakkumoommu*	
3	*masakaan*	*masaktaat*	*masakoon*	*masakeen*

These forms involve the following vowel contraction processes: $u + aa \rightarrow oo$, $a + aa \rightarrow aa$, $i + aa \rightarrow ee$.

For palatal and Ca-verbs the present perfect is formed analogously, except that the following additional contraction rule is required for the 3rd person masculine of palatal verbs: $e + aa \rightarrow aa$ *kašaan* 'he has wanted'.

Pluperfect: The simple past tense forms plus the auxiliary *naar* uninflected except in sg. 1c.
'I had guided', etc.

1		*masakku naarku*
2	*masakka naar*	*masakš naar*
3	*masaka naar* etc.	

Negative forms based on the perfective stem are formed with the prefix *al-*: *almasaka* 'he did not guide', *almasakaan* 'he has not guided', *almasaka naar* 'he had not guided'.

Imperfective Stem Conjugations
Some of the person markers used with imperfective stem involve both prefixes and suffixes. The prefixes are as follows:

(y)i-	/__C	*y-* /__V	sg. 1, sg. 3m., pl. 1, pl. 3, impersonal
ti-	/__C	*t-* /__V	sg. 2m., sg. 2f., sg. 3f., pl. 2.

The suffixes are *-i* sg. 2f., pl.1 *-na*, pl. 2/3 *-u*, impersonal *-i*. The second person feminine suffix palatalizes the last consonant of the stem: $d \rightarrow j$; $t \rightarrow č$; $ṭ \rightarrow č̣$, $s \rightarrow š$, $z \rightarrow ž$, $n \rightarrow ñ$, $l \rightarrow y$.

Continuous past: The conjugated imperfective stem followed by the past tense auxiliary.
'I was guiding', etc.

1		*imask naarku*		*imaskina naar*
2	*timask naar*		*timaski naar*	*timasku naar*
3	*imask naar*		*timask naar*	*imasku naar imaski naar*

Present/future: The present tense auxiliary is added to the imperfective with its person affixes, with the necessary vowel contractions.
'I guide', etc.

1		*imaskaahu*		*imaskinaan*
2	*timaskaaha*		*timaskeeš*	*timaskoommu*
3	*imaskaan*		*timaskaat*	*imaskoon imaskeen*

Negative
Negative present/future (prefix set 1):
'I will not guide', etc.

1		*ilawmask*		*ilawmaskina*
2	*ittimask*		*ittimaski*	*ittimasku*
3	*ilamask*		*ittimask*	*ilamasku ilamaski*

Zway has *ti-* in main clauses and *a-* in subordination.
Negative continuous past (prefix set 2)
'I was not guiding', etc.

1		*almask naar*		*almaskina naar*
2	*atmask naar*		*atmaski naar*	*atmasku naar*
3	*aymask naar*		*atmask naar*	*aymasku naar aymaski naar*

Non-aspectual Stem Conjugations
The infinitive is formed by suffixing *-oot* (prefixing *wä-* in Zway) to the non-aspectual stem: *misakoot* 'to guide'; *kisoot* 'to want'.

The jussive also combines prefixes and suffixes, **the imperative** uses only suffixes. The suffixes are the same as those used with the imperfective stem. The prefixes are (the *a* is elided preceding another vowel):

l(a)-	sg. 1, pl. 1 (*ya-* is also used for pl.1)
t(a)-	sg. 3f.
y(a)-	sg. 3m., pl. 3, impers.

lamsak	'let me guide'	*lamsakna/yamsakna*	'let us guide'
misak	'guide! (m.)'	*misaku*	'guide! (pl.)'
misaki	'guide! (f.)'		
yamsak	'let him guide'	*yamsaku*	'let them guide'
tamsak	'let her guide'	*yamsaki*	'let one guide'
yiima	'let him gossip!'	*tuunṭ*	'let her close!'

The negative infinitive is formed by prefixing *al-* to the affirmative: *almisakoot* 'to not guide'.

The suffix set for the negative imperative/jussive is the same as for the affirmative, but the prefixes are those found in the negative prefix set 2 (see p. 523). Examples: *almisak* 'let me not guide'; *atmisak* 'don't guide (m.)'; *aymisak* 'let him not guide'; *aymisaki* 'let people not guide'.

Derived Forms

The passive is formed by prefixing *ta-* (*-t-* after another prefix). The vocalic pattern of the active perfective stem is maintained here. Thematic *ee* and *oo* are raised here too, but not *aa*.

Table 22.1   Active vs. passive stem forms

| | Perfective | | Imperfective | | Non-aspectual | |
	Active	Passive	Active	Passive	Active	Passive
'eat'	bala-	ta-bala-	i-bala-	i-t-bala	bila-	ta-bala-
'guide'	masak-	ta-masak-	i-mask-	i-t-masak-	misak-	ta-masak-
'beg'	ṭooqas	ta-ṭooqas	i-ṭooqs-	i-t-ṭooqs-	ṭuuqs-	ta-ṭuuqas-
'mix'	liqaalaq-	ta-lqaalaq-	i-liqaalq-	i-t-liqaalaq-	liqaalq-	ta-liqaalaq-

Agent Nouns

There is no instrument noun. Agent nouns can be formed in two ways.

1   Verbs ending in a palatal radical add the suffix *-iilo* to the perfective stem:

amoge	'work reluctantly and badly'	*amogiilo*	'reluctant worker'
zaače	'watch, look after'	*zaaqiilo*	'watchman'
bače	'weep, cry'	*bačiilo/bakiilo*	'crybaby'

The suffix may be added to the palatalized or non-palatalized form of the verb stem.

2   Non-palatal verbs add the suffix *-i* to the last root consonant of the perfective stem, palatalizing that consonant where possible; the last, non-thematic vowel is lengthened to *aa*: *qoommara* 'be strong'; *qoommaari* 'strong'; *amasala* 'pretend' *amasaay* 'pretending'.

Adverbs and Other Parts of Speech

Some adverbs are formed from adjectives by suffixing *-ko* 'like' (*-ako* after consonant): *fayya* 'good', *fayyako* 'well'; *booz* 'bad', *boozako* 'badly'.

Syntax

Word order

Sentence Level
The word order is essentially of the SOV type. The order of the constituents other than the almost strictly final verb (cf. p. 526, subject or complement NP in post-verbal position) is comparatively flexible, though the preferred order is the subject before complements. Adverbial constituents are free to occur anywhere preceding the verb.

yoolay kreetii akku inna jiingo jeejaan
[see! ditch-the now this-obj. until it-has-reached]
'See, the ditch has lasted until now.'

ittaay hullam gina iseečče-waa ayba ya-ṭaafe injeera ibalaan
[this all time butter-and cheese of-teff pancake he-eats]
'This one eats all the time butter, cheese and teff pancakes.'
(Teff is a kind of grain (*Eragrostis tef*) grown in Ethiopia.)

ba-saasaa-m ayaam saasaa-m biṭṭe tigaagraat
[in-thirty-and day thirty-also bread she-bakes]
'And in thirty days she also bakes thirty loaves of bread.'

Objects and some other complements may be marked by pronominal suffixes after the verb (see p. 511).

muuta-y   ba-ingir-kaa-y   ragaṭay
[thing-the by-foot-his-the he-kicked-it]
'He kicked the thing with his foot.'

la-miiš-ii add faranka la-sijaara yoobuyaan
[to-man-the one 10-cent-coin for-cigarette they-give-him-AUX]
'They give the man 10 cents for a cigarette.'

Adverbs may be represented on the verb by the suffixes *-bi* or *-nn* (see p. 511). *-bi* expresses a locative, instrumental or detrimentative meaning: *masakkubuy* 'I guided against him'; *masakšibeet* 'you (sg. f.) guided against her'; *ikašnabihaan* 'we will want against you (m. sg.)'. *-nn* has a benefactive meaning: *masakkañ* 'you (sg. m.) guided for me'; *masakanna* 'he guided for us'; *masakkumunniimmu* 'you (pl.) guided for them'. These examples can be full sentences.

balaahu-ym-aahu [I-ate-them-Pres. Pf.]   'I have eaten them.'
oonṭeet-bi-iimmu [she-closed-DETR-pl. 3]   'She locked them in.'
(or 'she locked (the door) to their detriment')

Some verbs can take up to three noun phrases in the accusative case:

ihe safiyyaa-n dum-a-ša iseečče qabaahu
[I Safiyya-acc. hair-acc.-her butter I-smeared]
'I smeared Safiyya's hair with butter.'

Impersonal verbs cannot take an overt subject NP. When a verb complement or adverbial constituent is to be marked inflectionally in an impersonal verb, its form changes to the 3rd person plural subject, but it still does not take an overt subject NP:

la-gaar-ii makkazo wagga yaanu-nniy-aan
[for-house-the main-pole spikes they/one-make-BEN-sg. 3m.-AUX]
'One prepares spikes for the main pole of the house.'

Topicalized NPs are placed in sentence initial position:

la-ihe inna-y faranka la-sijaara waabu-ñ
[For-I this-obj.-the 10-cent-coin for-cigarette they-gave-sg. 1]
'As for me, they gave me these 10 cents for a cigarette.'

Sometimes a subject or complement NP occurs in post-verbal position:

waabši-ñ-aaš way weej?
[have-you (f.)-given-sg. 1 interr. children]
'Have you given me children?'

This seems to happen most often at the end of a (longer) speech quotation, perhaps to remind the audience of who the speaker is:

*biitbileet gina "aay, yeeš bay; yahun. allaha yaabaš. nibari" baataane
       taqeebalteetaat ufrite*
[when-she-says-sg. 3f. time "oh here say; let-it-be. Allah may-he-give-sg. 2f.
   live (2f.)!"] she-said-and she-received-her mouse-the]
'When she said this, the mouse said, "Oh, here you are! OK! Thank you! May
   you live!" and received (the milk) from her.'

Phrase Level

Noun Phrase
The linear sequence of constituents in the NP is as follows:

(Det) (Quant) (Modifier) (Source Gen.) HEAD (*hull*)

The positions of DETERMINER, SOURCE, GENITIVE and HEAD seem to be fixed. Determiners usually take the initial position, the head of the NP is at the end. A genitive of source (see example below) immediately precedes the HEAD. Nothing may be inserted between the source genitive NP and the head of the NP. Only *hull* 'all' may occur after the NP head.

> *yasab diinet* 'people's possession'
> *inna-y adda fayya ya-saar gaar*
> [this(obj.)-the one good of-grass house]
> 'this one good thatched house' (genitive of **source**)
> (but not: **ya-saar fayya gaar*)

> *weejee-nee hulla-m-kaa-y*
> [children-obj.-sg. 1 all-obj.-PART.-sg. 3m.-the]
> 'all of my children'

The relative ordering of quantifier and modifier is variable:

> *oošt fayya qirṭ dačč*
> [two good acres land]
> 'some two good acres of land' (i.e. the size of the acres is good)

> *fayya oošt qirṭ dačč*
> 'some good two acres of land' (again the measure is good, not the land)

Determiners   Demonstratives and the indefinite pronoun *add* 'one' (pl. *addadd* 'some') function as determiners.

> *add nagda kitaabañña*
> [one visitor [Islamic] scholar]
> 'a visiting scholar'

> *ittaa-y ya-saalo fayya gaar*
> [this$_{subj}$-the Salo's good house]
> 'this good house of Salo's'

Quantifiers   The quantifier slot can be filled by definite or indefinite numerals, or an NP with a numeral: *summut sabča* 'eight people'; *addadd sab* 'some people'; *oošt qirṭ fayya dačč* 'two acres of good land'.

The numeral itself can be modified by *add* 'one' when the amount is deemed insufficient:

> *add oošt qirṭ dacc taabayaan* [one two ...]
> 'He was given just two acres of land.'

Modifiers   The modifiers may be adjectives, genitive phrases (other than geni-
tive of source), and relative clauses. Several of these categories can cooccur in
sequence: *teem qalam* 'black color', *yaadde lij* 'mother's son'. Furthermore:

> *wado-kaa-y ya-jeeje-bii čuulo*
> [turn-his-the REL.-it-arrived-DETR.-sg. 3m. child]
> 'the child whose turn had come'

> *y-iišaa-na aynat gana laam*
> [of-her-obj. kind another cow]
> 'another cow like her'

> *fayya-te bareeda y-oonti-te garajja*
> [good-the pretty REL.-she-is-the girl]
> 'the good girl who is pretty'

The order of constituents within the modifier slot is variable:

> *yaabbona fatt dačč*   or   *fatt yaabbona dačč*
> [of-father-our wide land]   [wide of-father-our land]
> 'our ancestor's wide land'

NP head   The head is usually a noun, but pronouns or adjectives of various kinds
may also fill this slot.

Position of the definite article   The definite article, *-ii* for masculine (*-y* after
vowel) and *-te* for feminine are suffixed to the first constituent of the NP.

> *ya-lawṭa-y wakt*   [of-change-obj.-the time]   'the time of the change'
> *itta-te ya-saalo laam*   [this-the of-Salo cow]   'this cow of Salo's'

In this last example the definite article is suffixed to the demonstrative pronoun.
It can also be added to words that already have a possessive suffix: *dumka* 'his
head' ~ *dumkaa-y* 'his head'.

Position of case marking in NPs   There seems to be some freedom in where
the case marking occurs. It tends to mark the first constituent of the NP, but it may
appear elsewhere as well:

> Accusative case: *šeešt-a zamaan* 'three years', *asroošt-a birr-a* 'twelve Birr
> (Ethiopian currency), *add-a ruuq-a baad* '(to a) far away country', *šeešt
> birr-a* 'three Birr'.

> Dative case: *la-baad-naa-y sab* 'to the people of our country', *la-allitaa-y la-
> add lij* 'to that one son'.

Circumpositions   The preposition-portions are the same as the case marking prefixes *ba-*, *la-*, and *ta-* already described. They may be combined with various postpositions: *ba-... baldaale* 'except', *ba-... alqare* 'besides, except, but' (sometimes also *balqare*), *la-/ba-... darr* 'above', *ya-... eet* 'at, to someone'. *...-a fare* 'without', *...-a fono* 'to, toward', *ba-... gina* 'at ... time', *ta-... gina* 'together with', *ya-... gina* 'in the case of', *la-/ba-... qada* 'in front of', *la-/ba-... sir* 'under' etc.

Agreement Rules

Verbs agree with the subject in person, number, and gender. Pronouns, whether independent or suffixed, agree with their referents in person, number and gender.

Converbs (see below) need not have the same subject as the verb with which they are syntactically associated, hence need not show agreement with that verb:

miišii maṭaane mištikaay heett. 'The man came$_{converb}$ and his wife went.'

In noun phrases, the article agrees in gender with the head; there may or may not be number agreement between adjectives and the head:

oošt yaroore karaabča or *oošt yarooraaro karaabča*
[two big oxen]   [two big pl. oxen]
'two big oxen'

Assertion and Negation

This distinction is generally marked in the inflection of the verb. With copular expressions there is the option to use an independent negation particle *inko* (also *unko*) together with the affirmative form of the copula.

Questions

Sentence questions can be marked by a rise in intonation at the end of the sentence, and/or by the interrogative particle *way*. The pragmatic particle *-w* 'how about ...?' can also be used to mark questions: *ata-w* 'how about you?'

Pronominal questions make use of the interrogative words *maa* 'who?', *min* 'what?', *ayne* 'where?', *mače* 'when?', *aynako* 'how?', *laayiš* 'from where?', *aytaay* 'which?', *lamin* 'why?', and others.

Complex Sentences

Converbial Construction
The most common way of forming complex sentences is by using converbs. These are non-final verb forms, specified for person, number, gender, and aspect, but not for tense, which is determined by the verb on which they depend. There are two variant forms: a short and a long converb, with no apparent semantic difference. The long converb is formed by suffixing *-aane* (*-m* in Zway), the short

one by suffixing -*a* to any one of the three stems. The familiar vowel contractions *u+a(a)* → *o(o)*; *i+a(a)* → *e(e)*; *a+a(a)* → *a(a)* apply: *heedaane* (long), *heeda* (short) 'he having gone'; *heedeene* (long), *heede* (short) '(people) having gone'; *heedoone* (long), *heedo* (short) 'they having gone'.
The following sentence exemplifies both the long and the short form of of the con-verb (CVB):

> *wadaroom baalabii eet ikaš-a čimm yaañ-aane gaaray imañbiyaan eet*
>   *laṭibañña yeed-aane issaalaan*
> [fiber-and where-it-is place he-seeks-CVB he-gathers-CVB house-obj.-the
>   (REL.)he-builds-LOC.-sg. 3m. place to-soothsayer he-goes-CVB he-asks]
> 'He seeks a place where there is fiber, he gathers it and goes to a soothsayer and
>   asks where he should build the house.'

Converbs cannot occur in a sentence without a main verb. They may be grammat-ically dependent on either main or subordinate verbs:

> *išaam waratt-aane lakolo azar hoont-aane may tiisačim add waraaba ladar*
>   *azar hoon-aane may isač naar*
> [and-she she-went-down-CVB downwards she-was-CBV water when-she-
>   drank a hyena upwards he-was-CVB water he-was-drinking]
> 'When she went down to the river and was drinking water downstream, a hyena
>   was drinking water upstream.'

Converbs express a variety of semantic relations to the governing verb, sentence coordination, adverbial modification, etc.

Coordination
The suffixed conjunction -*waa* is used mainly for coordinating nominals.

> *baadd eet miiš-waa mišt naaru*
> [in-one place man-and wife they-were]
> 'A man and a woman lived in a certain place.'

> *lasabii qaawwa-waa saafra yoobuyaan*
> [to-people-the coffee-and snack they-give-them]
> 'They give coffee and a snack to the people.'

> *summutt-waa ziiṭṭañña saat*
> [eight-and nine hour]
> 'eight and nine o'clock'

It is also used to coordinate subordinate clauses of the same category:

> *tiyaawakb-waa tiyookb* ... [when-he-sells-and when-he-buys]

-waa is not used to coordinate sentences. Converbial structures (see p. 529) fulfill the role of coordination between sentences, among other tasks.

Conditionals

Real Conditions
'If' is *ba-* added to a perfective stem: *b-eewatkañ yeedaahu* 'if you tell me, I will go'; negative *b-aleewatkañ ilawweed* 'if you don't tell me, I won't go'. With the discourse suffix *-m*, the meaning is 'even if/though': *ba-ṭooqasa-m ataruy* 'even though he begged, they refused'; *b-aleewatkañi-m yeedahu* 'even if you don't tell me, I'll go'. Prefixed *la-* before a perfective means 'just in case': *jamaal lamaṭa, iiwday* 'if Jamal happens to come, tell him!'.

Hypothetical (Counterfactual) Conditionals
'If' is *bi(i)-* attached to the imperfective stem: *bi-tooddeeta mannam giza taašinneet naar* 'if you loved her, you would have done anything for her'; negative *ba-*: *ba-toodeeta mannam giza lalaašeehanneet* 'if you did not love her, you would not have done anything for her'.

Quotative Constructions

Direct speech quotations always require the verb *baala* 'say', even if there is another speech act verb in the sentence. *baala* (or one of its inflected forms) always comes after the direct speech; all other constituents of the embedding sentence precede the direct quotation:

> *mištite "ayne heeda?" baata tasaaltay*
> [wife-the where he-went? she-said-CVB she-asked-him]
> 'The wife asked him, "Where did he go?".'

Indirect speech quotations are formed with a relative clause and the suffix *-ko* 'as, like': *mištite ayne yeeda-ko tasaaltay* 'The wife asked him where he had gone.'

Subordination

Relative Clause
Relative clauses are marked by the relative form of the verb. In the past tense, they have the prefix *ya-*: *ya-moota karaab* 'an ox which died'. Imperfective relative verbs are unmarked in the affirmative and keep their auxiliary: *imaçaan* 'he will come'; *imaçaan sab* 'people who will come'. The relative uses the negative prefix set 2 (see p. 523). Example: *sab ila-sač* 'people don't drink' vs. *ay-sačaan sab* 'people who don't drink'.

Complement Clause
Purpose clauses have inflected imperfective stems, prefixed by *li-* 'to':

gaaraka liiheed kaše
[house-obj.-his to-he-go he-wanted]
'He wanted to go home.'

Relative verbs with the suffix *-ko* 'as, like' are used in complement clauses.

yeeda-ko išlaaw.
'I know that he went.'

Other Subordinate Clauses
The verb in temporal clauses is the inflected imperfective stem + the prefix *tii-:*

gaara tii-tgaba boozako dinabatt
'When she entered the house, she got a bad fright.'

Circumpositions + perfective provide special meanings: *ba-... zoof* 'after', *ta-... ko* 'as soon as':

lijaša ba-rakabteet zoof taknabalt
'After she had found her child, she returned.'

baarreka ta-bala-ko timirta gaara heeda
'As soon as he had eaten his lunch, he went to school.'

Copular, Existential and Possessive Expressions

Copular Sentences
The copula is irregular. It has three tenses. In the present tense it takes a suffix; for the future the imperfective forms of the verb *hoona* 'become' are used. In the past the copula suffix cooccurs with the verb *naara* 'was'.

The Present Tense Copula

Sg. 1	*-nku*	Pl. 1	*-nna*
2m.	*-nk*	2c.	*-nkumu*
f.	*-nš*		
3m.	*-n*	3c.	*-niimu*
f.	*-nt*		

Examples:

zeegaa-nna
[poor-COP. (pl. 1)]
'We are poor.'

attaay miiš duureešša yoonaan
[that-the man rich he-will-be/become]
'That man will be/become rich.'

mištite bilṭint naart
[wife-and-the clever-COP. (sg. 3f.) she-was]
'The wife was clever.'

If the complement consists of a phrase, the copula is suffixed to its first constituent:

addaddii zeegaa-n sab
[some-the poor-COP. (sg. 3m.) people]
'Some are poor people.'

If the word to which the copula is suffixed has a possessive suffix, the copula precedes the possessive (or determiner), cf. p. 512:

mutoot-in-kaay
[to-die(= infinitive)-COP. (sg. 3m.)-his-the]
'He is going to die.' (= it is his dying)

With personal pronouns and proper names the copula has the uninflectible form *-t*:

yañaam baalagaara waanna ataa-t
[of-us-and enemy main you-COP.]
'And you are our main enemy.'

karaabčaay ya-uhnu-t
[oxen-the theirs-COP.]
'The oxen are theirs.'

yamaṭaatte faaṭmaa-t
[REL.-she-came-the Fatima-COP.]
'It is Fatima who came.'

Existential Expressions
The verb of existence is *ala* 'there is' (neg. *eela*), past tense *naara* (*alnaarku* 'I was not (present))'. Both are inflected like simple past tense verbs: *alahu* 'I am (present)' (*eelahu* 'I am not (present))', *naarku* 'I was (present)', etc.

Possessive Expressions
Possession is expressed by the verb of existence with object suffixes. The subject suffix refers to the thing possessed, the object suffix to the possessor. *kitaab ala-ñ/eela-ñ* 'I have/don't have a book', *feeqča alu-y/eelu-y* 'He has some/hasn't any goats', *waašt naart-eet/alnaart-eet* 'she had/didn't have an older sister'.

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23 *Outer South Ethiopic*

Robert Hetzron

Outer South Ethiopic (OSE) languages are spoken in the area west and south of Addis Ababa. Gafat has recently become extinct and was spoken in the Goddjam Governorate General, in Western Ethiopia. The rest, the Gunnän-Gurage tongues, are spoken in the so-called Gurage region, a Semitic enclave surrounded by Rift Valley (Highland East) Cushitic languages, about 100 km south of Addis Ababa, along with East Gurage (see "Silte," Chapter 22 in this volume) which belongs to the other major branch of South Ethiopic. Even though the area of GG is separate from the one recently vacated by Gafat by hundreds of kilometers, it is reasonable to posit that once there was a continuous OSE territory enclosing the ones mentioned and what is between them. Whether the map of Africa by the Dutch geographer Abraham Ortelius (1527–1598), which shows Gafat and Gurage to be contiguous, is to be taken as a proof remains to be seen.

Gurage is known to be the scene of the ensete-culture, where much of the economy is based on the false banana plant (*ensete edulis*) which is used as food and as raw material for clothing and utensils by the population.

The history of the people who speak these languages is limited to recent times. Catholic missionaries were active in Chaha, leaving there a minor cultural heritage, churches and citrus plantations. The Soddo are usually Coptic Christians; among the Chaha and others one finds Roman Catholics, and, along with some Muslims, there is survival of the native religion as well.

Gafat has the oldest document within this group, a translation (from Amharic, itself from Ge'ez) of the Songs of Solomon, commissioned by the Scottish traveler James Bruce in the 1870s. Elicited by Wolf Leslau, Chaha has become the only GG language with a literary product: *Shinega's Village* by Sahle Sellasie, a vivid description of life in Chaha country. Otherwise, texts are available in linguistic publications.

After pioneering research by Marcel Cohen, H. J. Polotsky and others, it was Wolf Leslau who put Gurage (with East Gurage included) on the map, through numerous publications. Since then, G. Goldenberg has given details of Soddo, Carolyn M. Ford of Chaha, J. F. Prunet of Inor.

Genetically speaking, OSE divided into an **n-group** (Gafat, Soddo (Kistaninnya, Aymellel) and Goggot (Dobbi)) and a **tt-group** (Muher, and the other branch, Western Gurage (**WG**), consisting of Masqan and a major branch **CP-**

WG, subdivided into Central Western Gurage (**CWG:** Ezha, Chaha, Gumer, Gura) and Peripheral Western Gurage (**PWG:** Gyeto, Inor (earlier called Ennemor), Endegen, Ener). This is based on an isogloss in the main verb markers (p. 544) . Typologically, Soddo, Goggot and Muher form an *a posteriori* unit ("Northern Gurage," **NG**), relatively archaic, the only languages to have preserved full use of the main verb markers (the other languages exhibit traces only). Other typological features and vocabulary items, but not genetic criteria, connect the Gunnän-Gurage (**GG**) languages, i.e. OSE without Gafat, with East Gurage. The above abbreviations will be used in the text.

The surrounding Cushitic languages, of the Sidamo type, left a very deep mark on GG, throughout the structure of language. Inevitably, the official language Amharic, widely spoken in the area, has also left a noticeable imprint.

The "dialect vs. separate language" division works above the level of the CWG and PWG clusters. For the latter two groups, dialectal boundaries are not clear and the resemblance level of the constituent units is so great that it is better to consider both as dialect clusters and not separate languages. However, though grammar makes them separate, all the GG languages are quite similar, passage from one of them to the other is easy. Some mixed idiolects, Chaha–Ezha, Chaha–Muher, have also been found, especially in children of mixed marriages.

The following is a selective comparative statements showing phenomena shared by all the languages involved, as well as phenomena characterizing only some of them.

Phonology

Phonologically, the most conservative language is Soddo, and the most innovative: Inor. Parentheses indicate that the phoneme in question does not occur in all the languages.

Consonants

The Inventory
The noncoronal consonants (those where the closure is not done with the tongue) have labialized counterparts. The velars have palatalized counterparts as well.

b	b^w	(β)	d	ǧ z	ž g	g^w	g^y
(p)	(p^w)	f f^w	t	č s	š k	k^w	k^y
			ṭ	č̣		q	q^w q^y
m	m^w		n	(ñ)			
	(w̃)	($\tilde{\beta}$)	(r̃)				
w			r, l		h, (ʾ)	h^w, (ʾ^w)	h^y

Distribution
Nasalized consonants occur in PWG only, as a result of lenition (see p. 537). Con-

sonantal gemination exists in Gafat, Soddo, Goggot, Muher, Masqan and Ezha, which have no p/p^w ($< *bb$), and [β] (which nowhere occurs word initially) is not phonemic. Elsewhere, except Ener, gemination is but sporadic. In these languages, geminate consonants (as in *säbbära* 'he broke') were first devoiced (Ener *säppärä*, then degeminated (Chaha–Inor *säpärä*). CWG has no *ñ*. /l/ is rare, and is often geminated in Chaha and Inor. Soddo, Goggot, Muher, Inor, Ener and Endegen have /ʾ/ coming from *q*, but in the latter three, it may also be the trace of an older *ʿ or *ʾ, forming a cluster with a voiced consonant that has no voiceless counterpart (β, *w*, *w̃*, *m*, β̃, *n*, *r*, *r̃*, *l*, *y*): Inor *säm a* 'he heard' ($< *sam^ʿa$, elsewhere *säm(m)a*).

Lenition

These are consonantal alternations governed by position and morphophonemic criteria. The former start out as subphonemic, articulatory changes, e.g. initial *b-* → intervocalic *-β-* after a prefix, but when intervocalic *b* arises, the *b*/β alternation becomes phonemic.

In the CPWG languages, the following changes take place when a word-initial consonant receives a prefix:

b- → -β- (Chaha, Gyeto, Inor) -w- (Endegen, Ener)
n- → -r̃- (Inor)/-r- (CWG, Gyeto)
m- → -β̃- (PWG, sometimes -w- in Ener)
m^w- → -w̃- (Inor, Ener)/-w- (Endegen)

Two basic verb classes are distinguished throughout Ethiopian according to whether the mid radical is geminate or not in the past. In the nonpast, these are always geminate. This is descriptively still true of Gafat, Soddo (except for *-nn-* < *-ll-*), Goggot, but Muher, Masqan and Ezha exhibit also qualitative change for three instances: as against geminate/nongeminate, they have *nn/r*, *kk/h*, kk^y/h^y. The rest have altogether dropped gemination and added voiceless ~ voiced alternations: Gafat: *bällä/yəbälä*, Soddo: *bänna-/yəbäya-*, Masqan/Ezha: *bänna(-)* ~ *yəbära*, Chaha-Inor: *bäna/yəβära* 'he ate/eats' (see further p. 538).

Third radicals may only have the second term of these alternations.

Liquids

The phoneme /l/ is the "weak point" of the phonemic system throughout the area, *l* → *n* is common. But the most systematic changes took place in CWG and PWG. Leaving details aside, /l/, /r/ and /n/ merged in the following way: always *n-/-n(n)-* in initial position or in original gemination; *-r-* intervocalically, though *-r̃-* in Inor when it comes from **n*, *r* elsewhere. When a prefix is added, initial *n-* becomes *-r-* (*-r̃-* in Inor, but remains *-n-* in Endegen and Ener). A new /ll/ (always geminated) was later added to these languages.
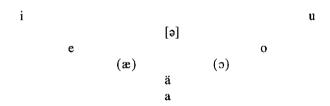
Internal Labialization (IL)

As a result of the absorption of an original final *$*u$:, the *tt*-languages labialize the **relatively last** noncoronal consonant in some morphological context: the impersonal, pl. 3m. and the infinitive in PWG except Gyeto, and before light sg. 3m. object suffixes in Masqan, CWG and Gyeto: Masqan: *yagd* 'he ties' + *-nn* 'him/it' → *yag^{w}d-ənn*.

End Palatalization (EP)

In PWG other than Gyeto, in the morphological contexts of impersonal, pl. 3m. and infinitive, end palatalization accompanies internal labialization; it occurs by itself in pl. 3f. in the same languages and in the Muher impersonal. It involves the dental consonants: *d → ǧ, t → č, ṭ →č̣, z → ž, s → š*. In addition, in the sg. 2f. form of the prefix conjugations, the tt-languages have end palatalization also involving the velars and postvelars, and *r → y*. This phenomenon, in both of its manifestations, affects the **last** consonant of the verbal word, e.g. *wəṭäq/wəṭäq^y* 'fall!' (sg. m./f.).

Vowels

The vowel ɔ occurs in Chaha and Muher, *æ* in Goggot, Muher, Chaha, Gumer and Inor. Both come from diphthongs. [ə] is not a phoneme, but an epenthetic vowel meant to dissolve undesirable consonant clusters. The labial vowels *o/u* are indistinguishable from *ä/ə* after a labialized consonant.

Relevant vocalic length exists only in PWG, which has double vowels (new formations), consisting of two moræ: Inor *moodä* 'he died' (cf. Chaha *m^{w}ätä-*), and also word-final diphthongs *-ua/-oa*, alternating with *-u-/-oo-* before a further suffix.

Long Nasalization

This is clearly attested in Inor only, though traces in the other PWG languages (minus Gyeto) suggest that it used to be more widespread.

In Proto-PWG, in a non-initial, non-geminate position, the following changes took place: *m → β̃, n → r̃, m^w → w̃*; root-final *β → m^w*. The creation of this set of nasal fricatives had consequences: nasality spread to the neighboring phonemes chainwise, through direct contact in both directions, in the following manner: all vowels are affected, *r → r̃, β → β̃, w → w̃*. Though themselves not perceptibly nasalized, *'* and *y* let the nasalizing chain pass through them. When the nasalizing

chain encounters any other phoneme, nasalization stops, and, unless word final, the end of the nasal chain produces an imperfectly closed *n*. Examples: *näpärä* 'he was, lived, there was' has Chaha *yəräβər* in the present, but in Inor the corresponding **yəräβər* becomes [yə̃r̃ãβə̃r̃]; for Chaha *yəmäsər*, Inor has [yə̃βä̃ⁿsər]; for Chaha *ayβ* 'cottage cheese', Inor has [äyə̃β̃] 'milk'.

Stress

In most languages stress, a slight raise of the pitch, is not relevant. Only PWG has a system that is meaningful even for grammar. The following presentation refers to Inor, where these phenomena were investigated in detail.

The basic stress rule is: a final closed syllable is stressed; when the final syllable is open, the stress is penultimate: *ä-säp'ärä* 'he broke$_{rel.}$', *yəsäβ'ər* 'he breaks'. Final *-e*, *-i* are always stressed: *yəsäwər-'i* 'one breaks/they break it$_m$.' (a synchronic interpretation of these as **/äy/* and **/əy/* does not work for other reasons). Long vowels and diphthongs behave like a sequence of two vowels: *bi'id* 'house', *ga'ara* 'loin'. What complicates the system is that these languages possess a multifunctional suffix *-m* which produces a final closed syllable, attracting stress, and in PWG it disappeared, at a period when the old vocalic length was still relevant, after final short vowels, leaving the expression of its function to the surviving, now functionally distinctive stress. Thus, Proto-PWG (still so in Chaha) *säpär'äm* 'he broke' (≠ subordinate *-säp'ärä*) became PWG **säpär'ä* (≠ subordinate *-säp'ärä*). But one more step was added by the introduction of an accentual harmony rule. A short vowel in a penultimate open syllable is also stressed when followed by a final stressed syllable with a vowel other than *-e/-i*: *säp'är'ä* 'he broke'. This creates a sequence of two stressed syllables, with the acoustic effect of a sequence of two high tones, with two peaks. Another accentual harmony occurs in a sequence *-CC'e/i-'i* where the final stress is a substitute for *-m*: *säpärš'i'i* 'you$_{sg. f.}$ broke it$_m$.'. Finally, some suffixes have their own stress and do not alter the stress of their host: one more source of dual stress: *yəsäβ'ər-kʷ'e* 'he will break' (definite future).

Morphology

Pronouns

Verbal subject affixes are not included here.

Gafat has no gender distinction in the plural. Soddo pl. 2/3m. has *-u-* before a suffix. In GG 2nd person pronouns original oblique pronoun person markers took over.

The GG possessive pronouns come from suffixed independent pronouns, the occasional connective *-ä-* harks back to the genitive prefix *-yä*.

Table 23.1   Independent pronouns

		Gafat	Soddo	Muher	Ezha	Inor
Sg.	1	anät(ti)	ädi	anä	əyya	ɔya
	2m.	ant(ä)	dähä	ahä	ahä	ahä
	f.	anči	däš	ahʸ	ahʸ	ašä
	3m.	wɔt	kʷa	hʷa	hʷət	huda
	f.	yət	kʸa	hʸa	hʸət	hida
Pl.	1	ənni	əñña	əñña	yəna	ina
	2m.	ənnant{ä/tum}	dähəm(u-)	ahəmʷ	ahu	ahua
	f.		dähma	ahma	ahma	ahaa
	3m.	ə(nnä)llämʷ	kənnäm(u-)	hənnämʷ	həno	hunoa
	f.		kənnäma	hənnäma	hənäma	hənaa

Table 23.2   Possessive pronouns

		Gafat	Soddo	Muher	Ezha	Inor
Sg.	1	-(ə)ǧǧä	-äddi	-äñña	-äna	-ña
	2m.	-(ə)ha	-dä	-ahä	-ahä	-ahä
	f.	-(a)š	-däš	-ahʸ	-ahʸ	-aš
	3m.	-(ə)ho	-kʷan/-(ä)w	-uhta	-ota	-hʷa
	f.	-(ə)hä	-ki	-əhʸta	-eta	-ša
Pl.	1	-(ə)nnä	-ñña	-ənna	-ändra	-nɔra
	2m.	-(ä)hamʷ	-dähəm(u-)	-ahəmʷ	-ahu	-ahua
	f.		-dähma	-ahma	-ahma	-ahaa
	3m.	-(ə)llämʷ	-hənnäm(u-)	-hənnämʷ	-ohna	-hunoa
	f.		-hənnäma	-hənnäma	-ähnäma	-hənaa

Complement Pronoun Suffixes
These comprise three sets:

> O: basically the object pronouns also for the recipient;
> B: used for 'in, with (instr.), to the detriment of';
> L: for 'for, in favor of'.

In addition, GG has two major allomorph classes: heavy, after sg. 2f. and plural subjects which used to end in a long vowel, and light elsewhere, except for mixed use after sg. 1 of the past. Light O suffixes have two subsets, one after the past and one after the other forms. Further complications do not fit into the framework of this survey. In the following, I am only giving the system of one language, Muher. Gafat has the pl. 2/3 endings *-hum ~ -kkəm/-(nnä)mʷ*. The allomorphs are light and heavy as in GG (though sg. 2f. is light). In PWG and Gafat, the plural ending *-ua/-mʷ* disappears before pronoun suffixes.

Table 23.3 Complement pronoun suffixes: O, L, B

Person of complement	O Light Past	Nonpast	Heavy	L Light	Heavy	B Light	Heavy
Sg. 1c.	-e	-e	-ññ	-nni	-nni	-bbi	-bbi
2m.	-nnaxä	-xä	-kkä	-nxä	-nnəkkä	-bxä	-bbəkä
f.	-nnah^y	-h^y	-y	-nh^y	-nnək^y	-bh^y	-bbəkk^y
3m.	-nn/-u	-$^{w/y}$:	-ya	-no	-nno	-wä	-bb^{w}ä
f.	-nna/-wa	-:a		-na	-nna	-ba	-bba
Pl. 1c.	-nä	-änä	-nnä	-nnənä	-nnənä	-bbənä	-bbənä
2m.	-nnaxm^w	-xəm^w	-kkəm^w	-nxəm^w	-nnəkkəm^w	-bxəm^w	-bbəkkem^w
f.	-nnaxma	-xma	-kkəma	-nxəma	-nnəkkəma	-bxəma	-bbəkkəma
3m.	-nnäm^w	-:äm^w	-yäm^w	-näm^w	-nnäm^w	-bäm^w	-bbäm^w
f.	-nnäma	-:äma	-yäma	-näma	-nnäma	-bäma	-bbäma

Nouns

Gender and Number

Except for a few residual -t endings (*məs/məšt* 'man/woman'), nouns have no feminine endings. For plural-marking, Gafat has -*ač*, Soddo and Goggot have -*očč*, but for some nouns Soddo has a reduplicative ending -*aCä* (C = repetition of the last consonant): *gurz/gurzazä* 'old man/men'. Soddo also has cases of broken plural, on Cushitic borrowings: *gäräd/gərid* 'girl/girls' (also *gəridadä* for 'girls'). The *tt*-languages usually do not mark the gender and the number on the noun; these are indicated only by agreement: on definitizers, coreferential pronouns and, if subject, on the verb: Inor: *bariq huda/hida/hunoa/hənaa* 'old + person he/she/they$_m$/they$_f$.' for 'the ~ that old man/old woman/old men ~ people/old women'. Yet a handful of nouns have suppletive plurals: Inor *äč/deeng^{y}a* 'boy/boys', and one broken plural, Inor *gäräd/gər^{c}ed* 'girl/girls'.

Definiteness

The definite article is placed after the first component of the noun phrase, thus after the qualifier if there is one. It is -*š* in Gafat: *wäy-əš gäǧǧä* 'the new house' (lit. 'new-the house), feminine also -*it*. It precedes the object ending -*n*. In GG its use is restricted to a "discourse-referential" function: "the above-mentioned." Soddo, Goggot, Masqan and Inor have the ending -*i* (Soddo has an optional feminine article -*iti*), Muher and Ezha have -*we*, the rest (often Inor as well) use postposed 3rd person independent pronouns (see Gender and Number, above).

For newly introduced items, there is an indefinite article, the same as the numeral 'one' in Soddo and Goggot, and the original form of this numeral *(a)at* ≠ *əmma(a)t* 'one' the present form.

Case Marking

As in Amharic, as against three sets of adverbal pronoun suffixes a longer list of adnominal case markers are used.

Adnominal Prefixes, Suffixes and Circumfixes/-Positions
The subject, most objects and cognate instrumentals (for compounds as in English *spoon-feed*) have zero marking.

Prefixes: *-(y)ä-* for the dative, optionally for definite objects and for the genitive 'of'; locative *bä-* 'in/at' and ablative from'; comitative *tä-* '(along) with', *bä-/tä-* 'than' (for comparative constructions), Gafat *(əm)mä-* 'in/at, from, than'.

Suffixes: Gafat only: optional *-än* for an object; Soddo *-yy(än)*, Goggot–Muher *-t*, PWG *-i*, Gafat postposition *fänna*, elsewhere *-e* for 'toward'; *-sən*, Gafat *səlä* 'till, as far as'. There is an optional vocative in *-o*.

Samples of circumfixes/-positions: *(y)ä-* ... *hä(ma)*/Gafat *əndä* 'like'; *bä-* ... *fʷär*/Gafat *laǧǧä* 'on'; Gafat *tä-* ... *biǧǧä/dibä* 'with (comitative)', etc. In genitival construction, the initial *(y)ä-* of the possessor drops if there is a further preposition: Inor *ä-məs biid* 'the man's house', but *bä-məs biid* 'in the man's 'house'.

Adjectives

Adjectives exhibit no gender or number, except for some sporadic cases of middle reduplication Soddo *gəddər/gədəddər* 'big/big, every one of them'. They are understood to be comparative adjectives if a basis of comparison is present with the prefix *bä-* or *tä-* optionally followed by a form of verb 'exceed' or 'be better', e.g. Inor *bä-/tä-hunoa (yãr̃ä̃ä̃ʿ nämädä-n-ə* ['than-them (he + exceeds) he + loved-himending'] 'he liked him more than them'.

Demonstratives

The basic pattern is *zəh/za* for 'this ~ these/that ~ those' with no distinction of gender and number. In CWG and PWG *hə/ha* is also attested, with no discernable difference in meaning. PWG has *waa/haa* for 'this/that' (or pl.) before nouns, but *waada/haada* 'this/that one' by itself. Inor has presentative pronouns of the *voici* type: *yähä/yäš/yähua/yähaa* 'here is for you (sg. m./sg. f./pl. m./pl. f.)' with object pronouns. Gafat has *əññə/aññə* 'this/that', optionally combined with the definite article, presentative *ənnäho*.

Numerals

The basic cardinal numbers in Soddo and Inor are:

	Soddo	Inor		Soddo	Inor
1	*quna (att)*	*əmmaat (aat)*	8	*səmmənt*	*süüt*
2	*kitt*	*wərʾet*	9	*zätäñ*	*žiʾä̃*
3	*sost*	*soʾost*	10	*assər*	*assər*
4	*aratt*	*arβʾät*	20	*kuya*	*huya*
5	*amməst*	*amʾəst*	30	*sassa*	*bäʾər*
6	*səddəst*	*sədəst*	100	*mäto*	*hü*
7	*säbatt*	*säβʾat*	1000	*ši*	

The parenthesized *att/aat* are used as an indefinite article, or in counting: "1, 2, 3 ..." but not as numerals with nouns. "Teens" and "tens + digits" are formed by adding digits to the tens (which end in *-a*).

Ordinal numbers get a suffix: *-əläññä* in Masqan, *-änä* in Chaha; in Inor, final *-t* is replaced by *-čä*.

Numerals may be followed by possessive endings; if a suffix *-m(ä)-* is inserted, totality is implied: Inor *so'ost-nərä* 'we three', but *so osčä-mä-nərä* 'all three of us'.

The expression for 'all': Soddo *kulləm*, Chaha *ənnəm* are the only modifiers that follow the noun modified.

Note also the system used, beyond "yesterday/tomorrow" for a full week before and after: Inor *saβ'ätərä* 'six days ago' *saβ'ätä* 'six days from now' (containing the archaic ordinal form of 'six').

Verbs

Root Classes

Verbs with only consonantal radicals (which may be subject to morphophonemic alternations, cf. p. 537) are **sound**, and those with one or two vocalic radicals are **weak**. The latter may have some features of their own in the conjugations. Most verbs have three radicals, a good number have four (many of them have the repetitious 1-2-1-2 pattern: *ğəfäğäfä* 'germinate'), and very few have two (Chaha *šä-* 'want').

Vocalic **first** radicals result from the disappearance of initial **ḥ* or **x*. In PWG, the initial vowel is lengthened after a prefix. Another source is the disappearance of initial **ʾ* and **ʿ*. In PWG, after prefix, the ʾ reappears (representing ʿ as well). In the other languages, all of these merge and no changes take place: Inor *anäβä/yäärəβ* 'he milked/milks' (*√ḥlb*) vs. *akädä/ya'agəd* 'he tied/ties' (**√'gd*), but Chaha *anäbä/yarəb* and *akädä/yagəd*.

Vocalic **mid** radicals may be *a ~ ä, e ~ i, o ~ u* representing old gutturals or semivowels, but original **h* produces *a ~ ə/Ø*, Soddo *daqo/yədäqu* 'he laughed/laughs' (**√dḥq*), but *šalo/yəšlu* 'he knew/knows' (**√khl*). PWG may have ʾ as a mid radical for old **ʾ/ʿ*; for **h* it has short vowels: *harä/yəhər* 'he knew/knows' (*√*khl*), but long ones for the rest: *daa'ä/yədää'* 'he laughed/laughs' (*√*dḥq*).

Final *a-* is the vocalic **last** radical when resulting from the disappearance of a guttural. As above, PWG distinguishes between verbs that originally had **ḥ* or **x*, – the *-a* is lengthened before a suffix, and verbs with original **ʾ* or *ʿ*: the vowel remains short, and, if compatible (see p. 536), a glottal stop appears before the *-a*: *yəfäda* 'he unties' – *yəfädaa-ku* 'he unties it (/him)' (*√*ftḥ*), but *yəgäfa/yəgäfaku* 'he pushes /him' (*√*gf'*) and *yəβ'ära/yəβ'ära-ku* 'he eats /it'. Verbs coming from roots with final **-y* have an alternation *-ä/Ø*. Unlike in sound verbs, the *-ä* is stable throughout the past tense conjugation (see p. 544), and there is Ø ending in the other forms though, if palatalizable, the second radical will be palatalized in most

of its conjugation in other than PWG, except in pl. 3m. and in the impersonal: Chaha *bäkʸä/bäkʸähu/bäkäbo/yəβähʸ* 'he/I/they cried/he cries'.

OSE makes use of **compound descriptive** verbs consisting of an uninflected interjection, onomotopoeia or a word derived from a nominal or verbal root, plus a conjugated verb 'say' for intransitive use or a verb 'make' for transitive acceptations: Gafat *čəq balä* 'be quiet', Inor *akəya barä* 'agree' ('say alright'), *gawgaw barä* 'be insane' (cf. *gawa* 'stupid', *gawgawt* 'madness'), Masqan *daqq barä* 'laugh' (cf. the verb *daqä* 'laugh').

Derivation Classes
There are three lexically determined base forms: **Type A** with a vowel *-ä-* between the first two radicals in the indicative, with the penultimate consonant geminated or devoiced (in non-geminating languages) in the past, **Type B** with a palatal vowel (*e/i*) or palatalized first radical in the same position and gemination/devoicing in all tenses, and **Type C** with *-a-* with gemination/devoicing in the indicative. Finally, a **reduplicative** (frequentative, iterative) may be derived from root through repetition of the mid radical with an *ä* or *a* in between. The first occurrence of the radical has the weak degree and the second the strong one (see p. 537), e.g. Ezha *səbäbbärä-* 'smash' (cf. *säbbärä* 'break').

The above forms may have further prefix extensions, labeled according to their productive use, even though they are often lexically determined: *tä-* **passive reflexive** and, with Type C or the reduplicative: **reciprocal**. The prefix *a-* is a **causative**; *at-* is a more productive **causative** or **coercive**. Quadriradical verbs, including the reduplicative, may have intransitive *ən-/tän-* and transitive *an-* for **gradual**.

Tenses and Moods
The basic tense/mood forms are the suffix-conjugated **past**, the prefix-conjugated **nonpast** and **jussive**, the latter supplemented with suffixes in sg. 2f. and in the plural (pl. 1c. not in Soddo and Gafat).

The following categories refer to **main clauses** only.

The past form alone expresses the **past** tense. In an affirmative main clause, they are followed by a "**main verb marker**" in Soddo, Goggot and Muher (simplistically put: *-n* (Soddo/Goggot) or *-tt* (Muher) after original long vowels (sg. 2f., pl. 2/3m.f.) and *-u* elsewhere (after original short vowels or consonants). Gafat requires no special ending and the rest have *-m* or equivalent (final stress often in PWG) in the main position. The ending *-m* forms a **present perfect** in Soddo, Goggot and Muher. **Past perfect** is expressed by adding an invariable "was" to the past tense form. See further p. 546, Coordination. In negation, marked by *al-/an-* (and a suffix *-ka/-ta/-da* in PWG), there is no present perfect.

The nonpast form is a **present** in CWG/PWG, a **present–future** elsewhere. In Soddo, Goggot and Muher main verb markers are used in main clauses. CWG/PWG have two **future** tenses, a nonpast-based **definite** one when the future action or happening is deemed certain, and a jussive-based **indefinite** one for un-

certainty, wishful thinking, fear of what may happen, etc. (see more below). A **durative–habitual** past obtains when the nonpast form is followed by an invariable "was": Soddo *yəbəl näbbär* 'he kept saying'. In negation, marked by *t-* in Soddo main clauses and *a-* (+ gemination where it exists) elsewhere, with a further suffix *-ka/-ta/-da* in PWG main clauses, there is only a present–future everywhere and a negated durative–habitual based on *b-* + negative nonpast.

Conjugations

Gafat makes a gender distinction in sg. 2/3, GG has gender in all non-1st-persons and has, in addition, an impersonal (from an old pl. 3m.) corresponding in function to a general agent "one" or to an agentless passive (for IL + EP see p. 538).

Person marking is summed up in Table 23.4, below.

Table 23.4 Person marking

	Past Singular	Plural	*Present/Jussive* Singular	Plural
1c.	-hu/hʷ	-nä	*Pr.* ä-/-n-/*Juss.* nə-	nə- ... -nä
2m.	-hä	-həmu/-hu(a)	tə-	tə- ... -ämu
f.	-hʸ/š	-həma/-haa	tə- ... -i/ EP, etc.	tə- ... -äma
3m.	-ä	-mu/-o/-ua	*Pr.* yə-/*Juss.* (y)ä-	yə- ... -ämu
f.	-äčč/-ätt	-äma/-aa	tə-	yə- ... -äma
Impersonal		IL + EP		yə- ... IL + EP

In the past, some languages have *k* instead of *h*. In the present sg. 1c. *-n-* is used after a subordinating prefix. In pl. 1 Gafat and Soddo have no suffixal element. See p. 540.

The definite future is formed by attaching a suffix *-te* to the present in CWG, but in PWG only to those persons of the present that have a suffix, the rest have *-kʷe*. The indefinite future is the jussive form (but with *ä-* in sg. 1c.) plus *-šä/-se* (< 'want'). The *t*-converb (see p. 547) consists of a root form with a palatal vowel toward the end + *-t(t)ä-* + the past tense endings.

In Type A, the thematic vowel of the stem is lexically determined in GG, e.g. Chaha *yəsβər* 'let him break!', but *yərkäβ* 'let him find!'. In the affirmative 2nd persons, i.e. in the imperative, there is no prefix: *səβər* 'break!', but there is one in prohibitions: *atəsβər* 'don't break!'. The imperative of 'come' is suppletive sg. 2m. *nähä* 'come!' for the verb *mäṭṭa/čänä*, etc.

Verbal Nouns and Participles

There are two types of infinitives based on the jussive stem, with a prefix *wä-* (the only type in Gafat, Soddo, Goggot and Muher) or with a suffix *-ot*, or developments thereof. There are no productive participles, only some scattered relics survive.

Syntax

Word Order
The typical word order is "Sentence–Adverb (Time, the type 'therefore', 'after-wards')–Subject–Complement(s)–Verb" with very few exceptions. Qualifiers (adjectives, demonstratives, numerals, possessors, with the exception of definite articles which are placed after the first word of the noun phrase: Soddo *yä-čạkk-i awreočč* 'the [-*i*] animals of the forest', Inor *a βǝs huda*ᵢ *adood* 'the*ᵢ* man's mother') and quantifiers (except for postposed 'all') precede the element quali-fied, subordinate clauses stand before the governing clause.

Agreement rules
The verb expresses person, number and gender. As the CPWG noun itself rarely marks number and gender (see p. 541), the agreement is based on meaning: Ezha *siṭar*ᵢ *wässädä*/Inor *siṭaar*ᵢ *wäsädäč* 'the devil*ᵢ* took', where the Ezha devil (Satan) is masculine, the Inor one feminine, as revealed by the verb. Demonstra-tives and adjectives have no agreement, but in PWG definite articles ≅ distant de-monstratives do, again with the meaning: e.g. Inor: *äsäm huda*_{sg. m.}/*hida*_{sg. f.}/*hunoa*_{pl. m.}/*hǝnaa*_{pl. f.} 'the brother/sister/brothers ~ siblings/sisters'.

A definite case-marked nominal complement may be referred to by a comple-ment pronoun suffix after the verb of the same clause for emphasis; in CPWG, gender and number may only be explicit in the suffix, Ezha *tǝkäna*ᵢ*š b*ʷ*änan-n*ᵢ-*ǝm* 'he ate [him*ᵢ*], my son*ⱼ*'.

Questions
Sentence-questions may have an optional sentence-final particle *-we*. Interroga-tive pronouns are placed directly before the verb, so will the answer word. Some of these: 'who' is *m*ʷ*a(n)* (a composite representation), is *mǝn/r* 'what, which' (may be followed by a noun), *mǝqar* (*qar* 'thing') is 'what' (self-standing), 'where' has *aay*, *eti* and the like, 'why' is "for + what," Inor *a βǝr̄*. For "when," Chaha has at least two forms, one for the nonpast, one for the past: *mäčä yǝtänšä* 'when will he come?', but *mäčrä čänäm* 'when did he come?' (*-rä* is the remnant of a word meaning 'day').

Coordination

Phrasal coordination
In Soddo/Masqan/Gafat, the particle *-nna/-nna ~ -wa/-mma* is placed after all non-final constituents of the conjoining: Gafat *wǝt-ǝmma abo-ho-mma alǝ-ho* 'he-and father-his-and brother-his', Masqan *säb-wa awre* 'people and animals'. For a closer connection, *-m* (or equivalent) may be placed after all the constituents: Ezha *at mǝst-ǝm mǝs-ǝm* 'a woman and a man' (preceded by 'one ~ a').

Conditionals in Chaha

	If-clause	Then-clause
Real	*bä-* + Past or	Regular main verb
	b-/t- + Nonpast	
Unreal	*tä-* + Past	CPWG (archaic) jussive, elsewhere
		Nonpast + *ba(nä)* 'was'

Examples:

Real: *bä-šä/b-išä äčänšä* 'if he wants it, I (may) come'
Unreal: *tä-šä ätän ba* 'if he (had) wanted, I would (have) come'.

Converbs

Converbs (also called "gerunds") are a category overlapping what coordination and subordination are meant to achieve. They are marked by an ending *-m* (or, partly, final stress in PWG, see p. 539), which may be attached to one of the basic tense forms: past, nonpast, jussive in agreement with a governing tense/mood-marking verb: Masqan *bänna-m wärä* 'he ate and left' *yəbära-m yar* 'he eats and leaves/he will eat and leave', *yäbra-m yar* 'let him eat and leave!', but in subordination marking no tense *-m* combines with the past: Masqan *bänna-m təyar* 'when he had/will have eaten and left/will leave' (see p. 548). Thus, the nonfinal coordinate clause will have the *m*-converb form which only marks tense/mood, and the person of the subject (most often, but not necessarily the same as the subject of the governing verb: Inor *ä-wər³ ečä-m-äh"noa-y adood gänäžaa-m-ta ä-gäräd adood tä-gäräd-ša təřä βřβ-ä-gäräd-ša äŵäQMõ-yä* 'the mothers of both became old and one took the girl's mother to live with her daughter', lit. 'of-both-Topic-their$_{sg. m.}$-the mother became + old$_{pl. f.}$pl.-Converb-*ta*[see below] of-girl-mother with-daughter-her lives$_{sg. f.}$-in + order + to to-daughter-her-the one+ brought-her-M[main past ending]).

In addition, the converb may be an adverbial modifier, in which case it is always in the past, e.g. Masqan *täzäbbärä-m yar* 'he is going back', lit 'he returned-*m* he + goes'.

The *t*-converb in the CPWG languages (see p. 545) occurs before negative verbs, and, in alternation with the *m*-converb, before forms other than the past: Inor *täzäpetä yaark"e/ayaarka* 'he will/will not go back'.

An element *-ta, tannä* etc. may follow the converb to optionally mark a bigger break between the clauses.

Subordination

Subordination is marked on the clause-final verb.

Tense-marking Subordinations

Complement Clauses

For quoting what has been said, **direct speech** (see p. 549) is used, but verbs like "think, see, know" also combine with a **quotative** form that consists of the past or nonpast of the verb with the case marker 'like', e.g. Gafat *ənd(ä)*, Soddo *yä-bän-na-hom/yəbäya-hom äšlu* 'I know that he ate/is eating'. **Purposive** clauses governed volitive verbs have nonpast + 'like': *yəbäya-hom äšo* 'I want him to [that he] eat'.

Relative Clauses

These are marked by *yä-* before the past and zero with the nonpast or by a suffix *-ka/-ta/-da* in Ennemor; they precede the noun qualified: Chaha/Ennemor *yəsäβər/yəsäβər-(ka) məs* 'the man who breaks'. With complement relatives pronoun suffixes after the verb will mark the case relation: Gumer *y-aba-na äræʾb*$_i$*-iwär-wä*$_j$ *mädär* 'to$_i$ the place in$_j$ which my father tends his cattle' lit. 'of-father-my cattle in/to$_i$-he + tends-in$_j$ + it place'.

Temporal Clauses, etc.

The rest of the subordinate forms indicate no tense. They combine with past or nonpast forms, independently of the time reference. The most important ones are: with the nonpast: *t-* ... (*-ka/-ta/-da* in PWG) or *b-* 'when, while [the latter with no suffix in PWG]' *t-* ... *sən* 'until'; with the past: Chaha *bä-/tä-* ... *gam*^{w}*ä* ["time"]/ *yəfte/anq*^{y}*ä* for 'when'/before/after', *yä-* ... *-e* 'because of', etc.

Copular and Possessive Expressions

The copula and the locative-existential verb ("there is") have a suppletive system. The main present tense of the copula (present also in those languages that have present-future elsewhere) is based on an *-n*-containing element + past tense endings (but see below for sg. 3m.), with the verb *härä*, etc. for subordination; the locative main verb on CWG *närä*, PWG *anä-* Gafat, Soddo, Goggot *yən(ä)-*, etc. The main past tense of both is *ba(a)nä/näb(b)ärä* or an invariable *ba*; the future and all the subordinate forms are based on *h*^{w}*ärä-* 'to be'. A further main present copula, often combined with the other one *-t(t)-* is used next to pronouns, often in cleft constructions: Inor *waa zänga iiya-t-(ən)-a ar* 'this thing is mine' (lit. this thing mine-is-(is)-thing'). The negative forms are also suppletive in the present.

The formal predicate is always a verb (including the copula). When the semantic predicate is an adjective, the following constructions have been observed in the present tense:

Goggot/Masqan	*zi məss fäyya-n/-w*	'... good-is'
Chaha	*zə məs wähe qar-u*	'... good thing-is'
Inor	*waa məs wähe-n-a ar*	'... good-is-thing'
	'This man is good'	

As illustrated, in PWG the present tense affirmative copula is word final only if there is no suffix. If there is one, it precedes the suffix: Inor *waa məs äsäm-ənä-ña* 'this man is my brother' (lit. '... brother-is-my'), see below.

Possession is expressed by affixing object suffixes to *əzz-* (in the present only) in Gafat, elsewhere to the existential locative verb. The 3rd person possessor stands in the beginning of the sentence, as a topic, with no case mark: Gyeto *aat məs hoyt išta baanäβa-y-tä* 'a man had two wives' ('... was-him-Suffix').

Particles

In GG, clitic particles appear right after the verb or noun, preceding all other suffixes, though one finds some fluctuation when it cooccurs with the definite article. The most important one is *-m(-)*, a multifunctional particle (converb, past tense, conjoining) which, after the first phrasal element may stand for a contrastive topic 'as for', and some other kind of emphasis. The interrogative counterpart is *-š-*.

Examples: Masqan *näggade-mm-i/näggade-yi-m* 'and (as for) the merchant' (Topic-Article/Article-Topic), Inor *bər'äm-nä-ša* 'it is her **odor**' (lit. odor-Emph.-is-her).

Special features

While all these languages have a word for "yes," there is no "no" word – a negative verb must be used.

There is a predilection for using direct speech, even when no actual speaking takes place. Verbs of asking, answering, thinking, etc. are connected with the preceding direct speech by means of a converb of the verb 'say' (*bal/rä*), Inor *"waga oorskʷe" təyaačämṭ* 'when he thought saying(!) "I will inherit money"', Soddo *sanqi-m "täkkäfät" yəbəl näbbär* 'the door wouldn't open' ('kept saying "I won't open"').

Further Reading

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